

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:909:

```
GAATTCGGCC TTCATGGCCT AGTCCCTGAA AAAAAAAAAA GAAAAAAAAA ATTTAAATAG      60
AGGAAATACT AGCTAAGTTT AATGTAGGCC AGTTCTAAAA TAATGATTTA TTGCTGCTGT      120
TGTTACATAA TTTTCTTAAA TATTTTAAAG ATTGCACACT GTCTGCTCGT AGGCCATGAA      180
```

(2) INFORMATION FOR SEQ ID NO:910:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 387 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:910:

```
TACCTGCAGT TGTACCGGT CACATGTGAC CAAACCTACC TGCTCCGATC CCTGGATTAC      60
GTAAAAAGAA CACTTCGGAA TCTGAATGGC CGCAGGGTCA CCTTCCTCTG TGGGGATGCT      120
GGCCCCCTGG CTGTTGGAGC TGTGATTAT CACAACTCA GAAGTGACTG TGAGTCCCAG      180
GAATGTGTCA CAAAGTGAGT TTTAGAACTG GAAACATTTT CTCCCAATTC CCAGTGGGAG      240
CTCTTGCTGT AGAAAGATAT TCAGAAAGGA AACTATTTT CCATTCATCC ATTGTTGTAA      300
ACAGATCACT CCAAATGTT AATCTTGAGC ATAGTGGTGG GATCATATGC CCTCTTTTAA      360
TCCAAGCATG TGTGTGCCGG TCTCGAG                                     387
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(2) INFORMATION FOR SEQ ID NO:911:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:911:

```
GAATTCGGCC TTCATGGCCT AGTGTCTTGA CAATGGTTGA GCTGGTTTGG ATCACAGGAA      60
CATTTATTTG ATAACGATGG AAGGAAAAAA CAGTGCTGTA ATAAGTCGCT TCTTAAAATG      120
TGGGGTGTTA TTAAGAAGAT AATGGGAAAG TGCTACTGGG AAGGCAAACA CAGCAATTGT      180
ACTCTACAGA CAGGGATTCT CCTATTGGCC ATTTTAGAAA CATTCCCAG GCAACATGAG      240
ATTATCCAAG TGGAGAGAAC CAGAGTCAGA GCCATTTCCT AGGCCGACAG AGCAGCGCTC      300
CAGATGAGAT ACTGAAGGTT TGAAGTCAAG TGATGGCAGT AAGATCAGAA AGCAAAAGGC      360
ATATCACAAA GAAACCATAA GATTCTCCAT CTGGATATAT AGAAGATAAA TGGAAAGAGA      420
AACTCGAG                                     428
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(2) INFORMATION FOR SEQ ID NO:912:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:912:

GAATTCGGCC	TTCATGGCCT	AGAAAACCAA	ATACTGCATG	TTCTCACTCA	TAGGTGGGAA	60
CTAAACAATG	AGAACACTTG	GACACAGGGC	TGGGAACACC	ACAACTTCTT	TTTCAGTTCA	120
TAACTCATAG	TCCACGATCC	ATGTGCTCTT	TGACTTGACT	TTTCTTAAAC	TCCTATTTTA	180
TGTGCTTCTG	ACTTGCTTTT	CCTTCTTATT	TGTAATCCAC	ACTAGCCTCA	AAAGATGCAT	240
GAACTGTGAA	TTTTCACTTC	CAGGGCCATG	GATAGTTGAA	CATCTAGTAG	TGAATTTCCCT	300
CTTTCAGAAG	ATAAATAAAT	TCATTCATTC	CCCTGGATCT	AGAAGGACAC	ACTCGAG	357

(2) INFORMATION FOR SEQ ID NO:913:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:913:

CAGCCTGGGT	GGCAGAGCAA	GACTCCATTT	CAAAAAAAAA	AAAAAAAAAGC	CCAAGTCACT	60
TGCTGTTTCT	GGATCCAGTA	ACGCTGCCTC	AAATTTGATT	CAGTCACCTC	ACATACTTAA	120
CATTCTGGCT	TTCTTTCTCT	CTGTTTCTGG	CATCTGGAGA	TTTCCTTTTT	TTGTGTGTGA	180
GCTCATTTAT	GGTTATCTGT	TGTATGTTT	AATACAACCA	TTCTGGCTG	AGGCTGCCAC	240
ATCTAGAGCT	GGTAAACTCG	AG				262

(2) INFORMATION FOR SEQ ID NO:914:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:914:

GAATTCGGCC	TTATGGCCTA	GTGATATGTC	ATAATCCCTT	CTGTGGGCTG	GGCCACATA	60
AGGAGAGTCA	AATCACTTGG	GTGCTGGGAA	GAGGCACATG	TCACACGTGC	AAGAAGGTCC	120
AAGGATGAGA	TTAAAAATTC	CACAAAGGTC	CAAATTCTAG	GGCCAGACA	GAAGAGAAGA	180
GTCACATCAT	CTAGATGATG	AATGAAAAGA	TATGTCATTA	TTCTCCTTTG	GGCAGTGCTT	240
CTGCAGAAAA	GTTGCACCTT	CTAGGTGTTG	GACTCAGCAA	TATATCACAA	TGTCTGCAGT	300
ATTTTGGAAG	GAGAGGAGAG	TCACCATTAC	TTAGGTGCTA	GGCCAGCAA	TACATCTCAA	360
GCACTTCTTG	GGCAAAGCCC	AAGCAGTAAA	AAAGAGTCAC	ATTACCTAGG	TTCTGGGTAT	420
AGCAATATGT	CACAAATGCC	CCTAAGAAGA	GGGCCAGGA	AAAGACTCGA	G	471

(2) INFORMATION FOR SEQ ID NO:915:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:915:

```

GAATTCGGCC TTCATGGCCT AGAGTGCCTG ACCTTCCCTG TTCAAGAATT TATAAAGATT      60
CCTAACAGCA ATTCTAGAAA AAGGATAAAG ACCTCCACTT GGCTTTCAGA AGCCTCCAGC      120
ATCTGGCCCA AGCTAATACA GCCTTAAAC TAATCTGGTT ATAGCCAGC CCCTCATTTT      180
ACAAAGAAAA CTGAGACCCC TGGCTATCTA TTAACGCT CCAACCAAAC ACATCATCTA      240
TCCCCTCTCT TCCTCCAGAT AACACTCACT TACCAGGCTA CAGTGAGGTC CACGTCTCTG      300
ATATGAGGCT CCTGTCCACA AGTTTGGTAA CCTTCATCTG CCTCATCACC AGTGAGCACC      360
CAGCACTTAG CACTGTGCC GACACAGAAA TGAACACTCT GCTCCTCCGG GCCGGCGTGG      420
GTGCGCCGCT GCGGCCACCG GCAGCGCTCG AG                                         452

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(2) INFORMATION FOR SEQ ID NO:916:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:916:

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GAATTCGGCC TTCATGGCCT ACAAATGGTT GGTATATGTT ATGATAGCAA TTTTCTGCAT      60
AGCATCAGCA ATGAGTCTGT ACAACTGTCT TGCTGCACTA ATTCATAAGA TACCATATGG      120
ACAATGCACG ATTGCATGTC GTGGCAAAAA CATGGAAGTG AGACTTATTT TTCTCTCTGG      180
ACTGTGCATA GCAGTAGCTG TTGTTTGGC TGTTTTCGA AATGAAGACA GGTGGGCTTG      240
GATTTTACAG GATATCTTGG GGATTGCTTT CTGTCTGAAT TTAATTAAAA CACTGAAGTT      300
GCCCAACTTC AAGTCATGTG TGATACTTCT AGGCCTTCTC CTCCTCTATG ATGTATTTTT      360
TGTTTTTATA ACACCATTC TCAAAAGAA TGGTGAGAGT ATCATGTTG AACTCGCAGC      420
TGGACCTTTT GGAAATAATG AAAAGAATGA TGGAAATCTC GAG                                         463

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(2) INFORMATION FOR SEQ ID NO:917:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:917:

```

GAATTCGGCC TTCATGGCCT AACGTACTTG AAAAGGCTTT CCTTTACACT TCCAGGACCA      60
AACAGCAACT TCCTGCCACA CACTTCCACC CTATCACTGG GAGAAATCCT TTTCTGGACA      120
TGAGCCTTTG ACCTGGGTGG GGCAGAAAAG ACCACAACT CCATCTCCCA ATAGAAGTTT      180
GAAATTCAGT CAGCTTTTCC TTTTATGCTG TTTGTTGCCT GCTTGTGCA CTCCTCTGTC      240
CCCAGAACTG CAAGATTTT AGCTTCACCC CTTTCTGAGA GTAATGTTAT CTTTATCAG      300
AATCAGTATC AGTTCCCTG TATTCTGTGC TTCATCGAAT TTGCAAGACT GACCTCTTTT      360
AAGCATTAA TTTACTCCCA GAATCTCGAG                                         390

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(2) INFORMATION FOR SEQ ID NO:918:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:918:

GAATTCGCCT	TCATGGCCTA	CAGTGACAAT	GAACAAAACC	AGCACACCAC	ACAAATGAGT	60
GATGAGGAAG	AGGATGATGA	TGGCTGTGAC	CTTTTGTGCTG	ACTCTGAGAA	GGAGGAGGAA	120
GATATTGAGG	ACATTGAAGA	AAATACTAGA	CCTAAAAGAA	GCAGACCTAC	ATCGTTTGCA	180
GATGAGCTGG	CTGCCCGCAT	CAAGGGGGAT	GCCATGGGTC	GAGTGGACGA	GGAGCCGACA	240
ACCTTACCCT	CAGGAGAAGC	AAAACCTCGG	AAGACACTCA	AAGAGAAGAA	GGAAAAGGAGA	300
ACTCCTTCAG	ACGAGTCTTC	ATCATCCAAA	CCTGGAAAGA	AAATCCCAGC	AGCTCTCGAG	360

(2) INFORMATION FOR SEQ ID NO:919:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:919:

GAATTCGGCC	AAAGAGGCCT	AGTGCTATTG	AAACATTGGT	AACAGCAATT	TCTTTAATTA	60
AACAATCCAA	AGTCTTGCA	GATGATCGTT	GCAAAGTTCT	TATTAGCTCT	CTGCAGGATT	120
GCCTTCATGG	AATCGAGTCC	AAGTCTATG	GGTCTGGATC	CAGACGTGAA	CGATCAAGAG	180
AAGGGACCA	TAGTAGATCA	CGGAAAAGA	GTCGTCGCCA	TAAATCTCGG	AGTAGAGATC	240
GCCACGATGA	CTATTACAGA	GAGAGAAGCA	GAGGTCGAG			279

(2) INFORMATION FOR SEQ ID NO:920:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 470 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:920:

GAATTCGGCC	TTCATGGCCT	ACAGAACTTG	AAGCCATCAA	TAAAAGAGTA	AAAGACACTA	60
TGGCACGATC	AGAAGATTG	GACAATTCCA	TTGATAAAAC	AGAAGCTGGA	ATTAAGGAGC	120
TTCAGAAGAG	TATGGAGCGC	TGGAAAAATA	TGGAAAAAGA	ACATATGGAT	GCTATAAATC	180
ATGATACTAA	AGAACTGGAA	AAGATGACAA	ATCGGCAAGG	CATGCTATTG	AAGAAGAAAG	240
AAGAGTGTAT	GAAGAAAATT	CGAGAACTTG	GATCACTTCC	CCAGGAAGCA	TTTGAAAAGT	300
ACCAGACACT	GAGCCTCAAA	CAGTTGTTTC	GAAAACCTGA	GCAGTGCAAC	ACAGAAATTAA	360
AGAAGTACAG	CCATGTTAAC	AAAAAGGCTT	TGGATCAGTT	TGTAAATTC	TCCGAGCAGA	420
AAGAAAAGTT	AATAAAGCGT	CAAGAAGAGT	TAGATAGGGG	CCCACTCGAG		470

(2) INFORMATION FOR SEQ ID NO:921:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 455 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:921:


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GAATTCGGCC TTCATGGCCT AGCAGTGGCG TTGGAAGGAG ACGCGGAGGG GCAGTGGCCT      60
TGGAAGGAGA AACGGAGGGG CAGTGGCGTT GGAACGGGGG CAGTGGCGTC GGAACGGGAC      120
GCGGAGGGGC AGTGGCGTTG GAAGGAGAGA CCAGGGCCGC GGGGCTGCTT CTTGTAAAGG      180
GCCAAGCTGT GAGGACTTCG GCCTTTGCGG CCGCTTTTGT CTATGTCCCA TCTCCTTCTT      240
TGTTTTGTTT TTCTCAAACC CTTTAAAAAC GTGAAAACCA TTTCTAGCTT GGGGGCCCTA      300
TAAAAATAGG CCTCGCTGGC CCTAGTTTGA TGACCCCTGA AACAGACAAT TCAAGGAGAA      360
GCTTAGTGAA AGAGTCACTT ATAGCTTCAT AAAAATAAGA GAAGATATAG TATCCATAAA      420
ATAATAATAA GATTGTATCC ATGAGGTTCC TCGAG                                     455

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(2) INFORMATION FOR SEQ ID NO:922:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:922:

```

GACATGACCC TGGACAAAGA ACAAATAGCG AAGGATTGTC TTTCAGGGGA AGAAGAGGAA      60
GAGACGCAAT CATCTGCTGA CGACCTCACC CCGTCCGTTA CCTCCACGA GGCCTCCGAC      120
CTCTTCCCTA ACCGGAGTGG ATCTCGTTTC CTGGCTGATG AAGACAGAGA GCCTGGCTCT      180
TCTGCCTCCT CCGACACCGA GGAGGACTCT CTTCTGCGCA ACAAATGTAA GAAGGAGATC      240
ATGGTGGGAC CTCAGTTCCA AGCTGACCTC AGCAACCTGC ACTTGAACCG GCCTGTGAG      300
AAGATCTACG AGAACGAAGA CAAGCTACTC GAG                                     333

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(2) INFORMATION FOR SEQ ID NO:923:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:923:

```

GAATTCGGCC TTCATGGCCT AAGCAGCCTT TCACCAGGGC TCCATCTGTG AAGAGTCTCA      60
GCCATGACTT TGAGCTGAGC TTGGGAGAAG TAAAGCAACT GTTAAGGCCA GCCCTTGCCC      120
CTCAGACCTG CCATGAAAGG AATGAGCCCT AGACTGACTC CTGCAGCACC CCCGGGACAG      180
GCTGGGACCA GCTGTTTGTC TCCAGGTGTC AGAGTCCCTC CTCCTCCTCC AACCTCTCCA      240
TTGAATTCTA GACCTGCCTC GAG                                     263

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(2) INFORMATION FOR SEQ ID NO:924:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 467 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:924:

```

ATTTTGGGGA CCAAGAACCT GTACAAGGAT TTGTGATGAA CTTTTC AAT GGGGAAATTA      60
TCGACATCTT CAAGCCAGTG CGCAAGCACT TTGATATGCC TCATGATATT GTTGCATCTG      120
AAGATGGGAC TGTGTACATT GGAGATGCTC ATACCAACAC CGTGTGGAAG TTCACCTTGA      180
CTGAGAAAAT GGAACATCGA TCAGTTAAAA AGGCTGGCAT TGAGGTCCAG GAAATCAAAG      240
AAGCCGAGGC AGTTGTTGAA ACCAAAATGG AGAACAAACC CACCTCCTCA GAATTGCAGA      300
AGATGCAAGA GAAACAGAAA CTGATCAAAG AGCCAGGCTC GGGAGTGCCT GTTGTCTCA      360
TTACAACCCT TCTGTTATT CCGGTGGTTG TCCTGCTGGC CATTGCCATA TTTATTCGGT      420
GGAAAAATC AAGGGCCTTT GGAGCAGATT CTGAACACAA ACTCGAG                      467

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(2) INFORMATION FOR SEQ ID NO:925:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:925:

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GCCATCCTCT GACAAAAGAA AGAATATGTA CTCAGGTGGA GAGAATGTTT AGATGAATGG      60
GGATACGCCC CATGATGGAG GTCACGGAGG AGGAGGACAT GGGGATTGTG AAGAATTGCA      120
GCGAACTGGA CGTTCTGTG GTGGACTAAT TAAAGACATA AAGAGGAAAG CGCCATTTT      180
TGCCAGTGAT TTTTATGATG CTTTAAATAT TCAAGTCTT TCGGCAATTC TCTTCATTTA      240
TCTGGCAACT GTAACAAATG CTATCACTTT TGGAGGACTG CTTGGGGATG CCACTGACAA      300
CATGCTCGAG                                     310

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(2) INFORMATION FOR SEQ ID NO:926:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:926:

```

GAATTCGGCC TTCATGGCCT AGTGGAGACC TGGCCAAGGT ACAGAGAGCT GTGTGCATGC      60
TGAGCAACAC CACAGCCATT GCTGAGGCCT GGGCTCGCCT GGACCACAAG TTTGACCTGA      120
TGTATGCCAA ACGTGCCTTT GTTCACTGGT ACGTTGGGGA GGGGATGGAG GAAGGTGAGT      180
TTTCAGAGGC CCGTGAGGAC ATGGCTGCCC TTGAGAAGGA TTATGAGGAG GTTGGTGTGG      240
ATTCTGTTGA AGGAGAGGGT GAGGAAGAAG GAGAGGAAAA CCTCGAG                      287

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(2) INFORMATION FOR SEQ ID NO:927:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:927:

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CCGCGCACCA ACAACAGCAA CAACTCCACT GCGCCGGGCT GAGGAGCAGG AATTAGGAGC      60

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TCGCGAATAA	TATGAAAGGG	ATCCGCAAAG	GGGAAAGCCG	AGCAAAGGAA	TCCAAACCCT	120
GGGAGCCTGG	CAAGCGAAGA	TCCGCTAAT	GTGGCCGCCT	AGACTTCATC	CTGATGAAGA	180
AAATGGGGAT	TAAAAGTGA	TTTACGTTTT	GGAACCTCGT	CTTTTATTG	ACGGTGTCTT	240
GTGTGAAAGG	TAGGTCTGCT	TTGGGGGTCC	CCTCCGCTTT	GGATGGAGGT	GGGCTGACTT	300
GTAGATGGAG	AGAGGCTGGC	AGCTTACTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:928:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:928:

AGCCTGCCAT	CCCAGGCTTC	AGATTGGAGC	CGATACTCAA	GCAGTTACT	GGAATCCGTC	60
TCTGTTCTCG	GAACACTAAA	TGAGGCTGTT	GTAATGACTC	CATTTTCATC	GGAACCTCAA	120
GGAAATTTTCA	AACAGACCTT	CCTGGAGCTG	TCCAAAGGAA	AGCCCTCCCC	GCATCCCAGA	180
GCCTGGTTTG	TGTCTCTTGA	TGGAAAGCCA	GTTGCACAAG	TGAGGCACTC	CTTTATAGAC	240
CTGAAAAAGG	GCAAGAGAAC	CCAGAGCAAT	GACACCAGTC	TGGACTCTGG	GGTGACATG	300
AATGAGCTTC	ACTCAAGTAG	AAAGCTCGAG				330

(2) INFORMATION FOR SEQ ID NO:929:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:929:

GAATTCGGCC	TTCATGGCCT	AGTGAGTGGG	TGATATCTGT	AAAGTGCATT	GTCTTCAGTT	60
GTAGGTGGGG	TAGGTGTAAG	GGAATGGCGG	GGGGGCATGC	AATATGGGTG	AGGGAGGGCA	120
GTGCCCTTCT	CATCCCAGAC	CTGAGCCCCC	CCCCAAACCT	GTCTGGACTT	TGATCAGGAT	180
AAGAACGTTG	CAGGGCGAGG	CAAGTTCCTG	AAGCCGAAGA	GGTCTGGGCT	GGGGCCTACT	240
GGAGAAAGGG	CATAGACTGG	CTCGAG				266

(2) INFORMATION FOR SEQ ID NO:930:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:930:

GCGAAAATAA	CCTTTTCTAA	TGAGGATGTC	TGATACTGTT	ACTGTAAAAG	ATGAACTGTC	60
AACAATGAAG	GATTTGGAGG	CAGAAGTGAA	AGATACAACC	AGAGTTGAAA	ATCTTATCAA	120
ATCAGAAAAC	TATGGGAAGA	TTTGGTAGA	GAAGAATGAA	CATTGTATTG	AGAACAATAT	180
AGATTTGCAG	GAGAAAATTC	AGATCCAGTT	AACACAATCA	TTTGAGAAAAG	AAGAGAAGCC	240

CTCAAAGAT GAAGCAGAAA AAGAAAAGGC CAGTGATAAG TTGCCAGAA AAATGTTATC 300
AAGAGATCCC AGTCTCGAG 319

(2) INFORMATION FOR SEQ ID NO:931:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:931:

GAATTCGGCC TTCATGGCCT AAAGAAGAGC AGGAAGTCCA ATGTGGCCGA AGCAGAGTGA 60
GCAAGGGCAG GAGTACCAGA GGAGGAGATA GGACGCCAAA GAGTTAAGAA AAGGAGGAAT 120
GGAGAAGCTT TGCATCAAAA ATAAAATAAT ACATAACCAT GGT'TATGTGG GGTGGGGTTG 180
TCTCTTCTT TTGGAAAGAA GAAGGGCTTT CTGGGAATAG ATGCCCAGGC CAGGCAGCAA 240
GCTGCTAAAC TCGAG 255

(2) INFORMATION FOR SEQ ID NO:932:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 588 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:932:

GAATTCGGCC TTCATGGCCT AGCATTITCA AAAATTTCAGT GCAAGCGCCA GGCGATTGTG 60
GTCTAAGGAT ACGATTTTGA ACCATATGGG CAGTGTACAA AATATGAAAC AACTGTTTCC 120
ACACTTGCAC CTGATCAAGG AGCAGTGCTT CTCCATTGT TTTGCAGAGA AATGTTTTTC 180
ATTTCCCGTG TGT'TCCATT TCCTTCTGAA ATTCTGATT TATCCATTTT TTTAAGGCTC 240
CTCTTATCT CCTTCTTAA GGCAGTGTG CTATGGCACT TTTCTATAAC CTTTTCATTC 300
CTGTGTACAG TAGCTTAAAA TTGCAGTGAT TGAGCATAAC CTACTTGT'TT GTATAAATTA 360
TTGAAATCCA TTTGCACCCT GTAAGAATGG ACTTAAAAGT ACTGCTGGAC AGGCATGTGT 420
GCTCAAAGTA CATTGATTGC TCAAATATAA GGAAATGGCC CAATGAACGT GGT'TGTGGGA 480
GGGGAAGAG GAAACAGAGC TAGTCAGATG TGAATTGTAT CTGTTGTAAT AAACATGTTA 540
AAACAAACAA AAATTGTTAT TTTCTTTTC CTTCGGTCAG AGCTCGAG 588

(2) INFORMATION FOR SEQ ID NO:933:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 520 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:933:

GAATTCGGCC TTCATGGCCT AGGGGAAGGA AAGGCCCGTG TGGAGGAGCA TGGAGCCATC 60
TGCTCATGAA GGAAAGGCAG GGATGGGGCA GAGGTGTTGG GGCTTCCGTG CCACTCCAGA 120
GGCCAAGCCC AGAGCTGTGT GTGGAGCCCA TGAGGAGCAG AGATTTTCCA GCAAAGGTGC 180

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ATTTGTGGGC CTCCAGATGG AGGCCCTACC TCTCAGCAA GGAAGAAAC CCCTCTCTCT 240
TTGACCTCTC TCCCCTGCAC AATTAGAAGG TCTGAAGAG TGACTTCATT ATGGGTGGGT 300
GAGTATATGT TTATTGGGCA TCTGTGGTGT GCCAGATGTT GTGTTGAGTG CTGGGTGCAG 360
AGGTAAATGG GATATCTGGT TACCGCCAC ATGGGGCTTA TAGTGGGGGA AGTGGGGGAG 420
TAAGTCAGGA CACACGTAAG CAAACGCTAG AATGGATAGA TATTGTGATT AGAGCATTTG 480
AGAGAAAGAA CAGGATGTTT CAAGAAAGGA CAGTCTCGAG 520

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(2) INFORMATION FOR SEQ ID NO:934:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:934:

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GAATTCGGCC TTCATGGCCT ACTTTTTTTC TCAAGGTGCA ATGAAAGCCT TCCACACTTT 60
CTGTGTTGTC CTCTGGTGT TTGGGAGTGT CTCTGAAGCC AAGTTTGATG ATTTTGAGGA 120
TGAGGAGGAC ATAGTAGAGT ATGATGATAA TGACTTCGCT GAATTTGAGG ATGTCATGGA 180
AGACTCTGTT ACTGAATCTC CTCAACGGGT CATAATCACT GAAGATGATG AAGATGAGAC 240
CACTGGGGAG TTTCTCGAG 259

```

(2) INFORMATION FOR SEQ ID NO:935:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 413 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:935:

```

AACAAAATGA AACAAACAAA AGACAGAGGC CAAGAAAGGC TAAGTAACTT GCCTAAGACT 60
ATATAATAAG TCACAGGGCA GGAATAAAA CTCAGTTTTC CTGACTTCCA TTAAGGTTGT 120
CTTTTCCTCA CTCACATTG CCGTCATT TTTTCTGAT TATCTTAAG AAGGAGTGAG 180
GAGAGAGAAT AGAGAAACAG ATTTTCTCT CGGACTATCT TTTCTGTAGG GAAAAACCAC 240
TGAAGCCCTA TAGCCTGGA AGCTGCTTAT AGGGTTACAA TACTGTGTGT CCTGCAGAAC 300
CTGTGAAGCT CTTCTGTATT TTCTGGACTT TCCTGGAAG TCATTTAGAT ATAATGTAAT 360
AAATATAATA AAGTAGTTTA GATATAATGA GGTTTTCAAT AGGCTTCCTC GAG 413

```

(2) INFORMATION FOR SEQ ID NO:936:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:936:

```

GAATTCGGCC TTCATGGCCT ACCCTGAGAG TAAGCCAAAA AAGGAAGAAA AAAATATGGA 60
AGTAAATATG AAAGAGTGGA TTTTACGATA TGCTGAACAA CAAATGAAG AAGAAAAGAA 120

```

TGAGAATTCT AAAAGTTTAG AAGAGGAGGA AAAATTGAC CCTAATGAAA GGTACTTACA 180
 TCTTGCAGCA AACTGCTGG ATGCAAAAGA ACAAGCAGCT ACCTTTAAAC TAGAAAAAAA 240
 CAAGCAGGGC CGTCTCGAG 259

(2) INFORMATION FOR SEQ ID NO:937:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:937:

GCGAAACCGT GGTCAGCTGC AAGAAGGCAC AGGAGAACAT GAAGCAAAGG CACGAGAACG 60
 AAACGCACAC CTTAGAAAAA CAAATAAGTG ACCTTAAAAA TGAAATTGCT GAACTTCAGG 120
 GGCAAGCAGC AGTGCTCAAG GAGGCACATC ATGAGGCCAC TTGCAGGCAT GAGGAGGAGA 180
 AAAACAACCT GCAAGTGAAG CTTGAGGAGG AAAAGACTCA CCTGCAGGAG AAGCTGAGGC 240
 TGCAACATAA GAGGGAGCTC GAG 263

(2) INFORMATION FOR SEQ ID NO:938:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 384 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:938:

GAATTCGGCT TCATGGCCTA TTCCACTACT AGGCTGACAT GCAAAATCCT AAGAGAAGTC 60
 AGTCTTCCAG GATTGATCCT GGCAATTGTG CTTGCTGTTT CCCGTGCCTG GAGCACCTGT 120
 CCCAGCTCCC CTGTGGCTGG CTCCTTCTCA CCATCCAGGG TTCAGTCCAA ATATCTCCTT 180
 CAAAGAGAGA TCTTCCAGGG TCACCTAATC CAGAGAGTGC CCTCTATGGT TGCCACATCC 240
 CCCCACCCA CCACCCACCA CCCCCACTT CAACTCCTTT ATGGCACCTG CCCCTCCCTG 300
 AAATCTCAC TGTGCTTAT TTGTTATCTA GCCCTCTCAT CAGAATGTAG ATCCACTGGT 360
 GACAGGGGAC TTGTGTGCCT CGAG 384

(2) INFORMATION FOR SEQ ID NO:939:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:939:

GAATTCGGCC TCCATGGCCT AGTGTGTTT TTTGGGCTTG CTATTAATGC AAATCTGAT 60
 TGCAAATGGA TGTCATGTTT CATACCTTTT TTATCAGGAA AAAAGCAGCA AGCCTTCAGG 120
 TGTTCCAGTG ATGCCTGACA CAATTGAGCT GGACTTTATG CTGCTCTTTA CAGTAAGAGG 180
 TGTTCATTG TATGTGGGGA CTATGTGCAC TGGCGTCTAA GACAGTGACC TCAACAATAT 240
 TAGCTTTGCA CAAACCTCG AG 262

(2) INFORMATION FOR SEQ ID NO:940:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:940:

```

GAATTCGGCC TTCATGGCCT AGTGGAGGAC TGCTTTTGTG AACATGAGAA AGCAGCGCCT      60
GGTCCCTATG TATTTGGGTC TTATTACAT CCTTCTTTAA GCCCAGTGGC TCCTCAGCAT      120
ACTCTTAAAC TAATCACTTA TGTTAAAAAG AACCAAAGA CTTTCTCCA TGGTGGGGTG      180
ACAGGTCCTA GAAGGACAAT GTGCATATTA CGACAAACAC AAAGAACTA TACCATAACC      240
CAAGGCTGAA AATAATGTAG AAACTTTAT TTTGTTTCC AGTACAGAGC AGAACTCGAG      300

```

(2) INFORMATION FOR SEQ ID NO:941:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:941:

```

GAATTCGGCC TTCATGGCCT AGTATATCTG AAAAGTACAC TGTGTTTGA AATTATAAAT      60
TTTCATTCTG AATGAGGTTT CTTTTTTGA TTTCTTTAA AAAAAAAAAA CAACCTGCTT      120
TGATTTGCTT TACATTCCCT GCCCTCCATT TTTCTTATTA TATTGTAAAC ATTAGAAAAA      180
TGAACACCCT CGAG                                     194

```

(2) INFORMATION FOR SEQ ID NO:942:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 581 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:942:

```

GAATTCGGCC TTCATGGCCT AGTGAGGATA AAGATAAGGA ACAGGCCAGG CACAGTAGCT      60
CACGCCTGTA ATCCCAGCAC TCTGAGAGGC CGAGGCAGGT GGATCACATG GGGCCAGGAG      120
TTTGAGACCA GCCTGGACAA CATGGTGAAA CCCCCTCTCT ACTAAAAATA GCCAGGTGTG      180
GTGGCACACA CCTGTAATCC TAGCTACTTG GGAGGCAAGG TGGGAAGTTT GTTTGAACCA      240
GGAGGCAGCG GTTGCACTGA GTCAAGATCA TGCCACTGCA CTCCAGCCTG GGTGACAGAG      300
TACGACTCTG TCCCAAAAAA AAAAAAAG ATAAGGAACA GACCAACCC GAATCCACAC      360
AACCTGACAC ACAGGAAAGT CTGCCCCTC CATCCACCTA CCTCCCAAC CAGAGTAGTG      420
AAGCTATAAC CCCAGAGAGA TACCTTTGAT GTGAGCACTG TCCAGCATGG GCACCAAGGC      480
ATTACCTGC TCCAGGAGTG CAACCTGGGA AAGGATAAAC TGCTCCTCTA AAGCAAAAAT      540
GGACAAGATA GTTGCACTGA AGCAAACCTG GGCATTGCTA G                                     581

```

(2) INFORMATION FOR SEQ ID NO:943:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:943:

```

GAATTCGGCC TTCATGGCCT AAAACAGGCA ACAATGACCT TTTATTTTCT GTTTGTCCCC      50
ACCTCCCCAG CCTTCCACCT CCTGTTCTTC CTACCTTCTT CCTTTTGTAC TAAATAATCC      120
CCACCTCCCT TGATCATACA GTGAGGCTAC AGTGACTGAG GGGAGAATCC CCTCCTGTTC      130
ACTCTCCCAA CCCTGCTCCA GCCCTCAGC TTCCAGACC CTCATGCAGT TGGTTGTAAA      240
TTCTCCCACT GAGCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:944:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:944:

```

GAATTCGGCC TTCATGGCCT AAAACCTCAC GTGGCCTCTG ATTCATGTG GGGTGCATCC      60
ACAGGTGGCC CGAGCTGTTC TTTCAGCTGC TCCAAGGATT GAGACCCAAG TCATCATGAA      120
AAAGGCCCAA GTACAGTCTT AATGCGATAA ATCCACTAGC TAAGACGTCG AGTGCCAAGA      180
CCAGCCTTCC AGCCGAGGTT TGGACAAAGT CTCAGGTTCC CGTGACTCAG GGTAAGGTGC      240
TGGGGCTGCC AGAGGACCTG CCCAGCAAG ATTTTGTGCA AGAGCGAGAC TCCATCAGCC      300
CAGGCAGACG GGAGCAGGTT CTTGGCCAGC GTAGACAGCA GCAAACAGCA GCTCCTCGAG      360

```

(2) INFORMATION FOR SEQ ID NO:945:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:945:

```

GAATTCGGCC TTCATGGCCT AGTGCAGGAG ACGCCCTCAC CGGAGATGGG GACCGAGTCC      60
ACACGGCTCT CACTGCAAAT GCTTTGGGAA AAACAAGACA GTGTACTTTG TGATCATATA      120
AAACAGCAAA ATAAATAGT CGTGGGCACA GGGCCAGTGA TTCTGCAGTT AGAGCCGTGT      180
GGACTCGGTC CCCTCTCCGG CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:946:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:946:

```
GAATTCGGCC TTCATGGCCT AGGTTCCCCG GCGTGGCATG GATGATGACA GAGGCCCTAG      60
ACGTGGTCCT GAGGAAGATA GGTTCCTCTG TCGTGGGGCA GACGATGACC GGCCTTCCTG      120
GCGTAACACA GATGATGACA GSCCTCCCAG ACCAATTGCC GATGAAGACA GGGGAAACTG      180
GCGTCATGCG GATGATGACA GACCACCTAG ACGAGGACTG GATGAGGACA GAGGAAGCTG      240
GCGAACAGCT GATGAGGACA AAGGACCTCG AG                                     272
```

(2) INFORMATION FOR SEQ ID NO:947:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:947:

```
GTTTGGCTTA GATTTTGCTT TGGTTAGGTT GCGTTTTGGG GTTGCCTTT TTTGTTGTC      60
GCTTAAATGC AATTTGGTTG TAAAGATTG ATTCTTTGT GTTCATCTGT TCCGCTTCTC      120
AGCGGTCCAT CTCAGCGTCT CCCTTCAGGA ACCGCTGAGT GTCCTCTCTT AACATCCAAG      180
CCTTTTAATG AAATCGTACT GAAATCTGTA TCAGCTAAGA GTCCTCCAAT CCTGGTCCCA      240
TAACTCCAA GTGCCTTTT GACAGTGACA ACAGACAGTC CCTCGGCCT CGAG                                     294
```

(2) INFORMATION FOR SEQ ID NO:948:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:948:

```
GAATTAGAAT CTCTAAAGAA ACAGGAGGGA CTTCTTAAAA ATATTCAGGT CTCACATCAG      60
GAATTTTCAA AAATGAAACA ATCTAATAAT GAAGCTAACT TAAGAGAAGA AGTTTGAAG      120
AATTTAGCTA CTGCATATGA CAACTTTGTT GAACTTGTAG CTAATTTGAA GGAAGGCACA      180
AAGTTTACATA ATGAGTTGAC TGAATCCTG GTCAGGTTCC AGAACAAATG CAGTGATATA      240
GTTTTTGCAC GGAAGACAGA AAGAGATGAA CTCTTAAAGG ACTTGCAACA AAGCATTGCC      300
AGAGAACCTA GTGCTCCTTC AATTCTTACA CCTGCGTATC AGTCCTCACC AGCAGGAGGA      360
CATGCACCAA CTCCTCCAAC TCCAGCGCCA AGAACCATGC CGCCTACTAA GCCCCAGCCC      420
CCAGCCAGGC CTCCACCACC TGTGCTTCCA GCGTATCTCG AG                                     462
```

(2) INFORMATION FOR SEQ ID NO:949:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 624 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:949:

GAATTCGGCC	TTCATGGCCT	ACTCAAAGAG	ACAACAAATA	GCATGGTAGA	ATCAATTAAA	60
CACTGCATTG	TGTTGCTGCA	GATTGCCAAA	AGTACTATTA	ATCCCGTAGA	TGCAATATAT	120
CAACCTAGTC	CTTTGGAACC	TGTGATCAGC	ACAATGCCTT	CCCAGACTGT	GTTACCTCCA	180
GAACCTGTT	AGTTGTGTAA	GTCAGAGCAG	CGTCCATCTT	CCCTACCAGT	TGGACCTGTG	240
TTGGCTACCT	TGGGACATCA	TCAGACTCCT	ACACCAAATA	GTACAGGCAG	TGGCCATTCA	300
CCACCGAGTA	GCAGTCTCAC	TTCTCCAAGC	CACGTGAAGT	TGTCTCCAAA	TACAGTCCCA	360
GAGTTCTCTT	ACTCCAGCAG	TGAAGATGAA	TTTTATGATG	CTGATGAATT	CCATCAAAGT	420
GGCTCATCCC	CAAAGCGCTT	AATAGATTCT	TCTGGATCTG	CCTCAGTCCT	GACACACAGC	480
AGTTCGGGAA	ATAGTCTAAA	ACGCCCAGAT	ACCACAGAAT	CACTTAATTC	TTCTTGTCC	540
AATGGAACAA	GTGATGCTGA	CCTGTTTGAT	TCACATGATG	ACAGAGATGA	TGATGCGGAG	600
GCAGGGTCTG	TGGTGAAGCT	CGAG				624

(2) INFORMATION FOR SEQ ID NO:950:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:950:

GATTCTAGAC	CTGCCTCGAG	CACGCTTGA	GAAGCCCCGT	CTCTACTAAA	AATACAAAAT	60
TGGCCGGGCA	TGGTGGGCGA	TGCCTGTGGT	CCCGGCTACT	CTGGAGGCTG	AGGCGGGAGA	120
ATCACTTGAG	CCCAGGAGGT	GGAGTTGAGG	TGAGCCGAGA	TCGTGCCATT	GCACTCCGGC	180
CTGGGTGACA	GAGTGCAACT	CCGTCTCAAA	AAAAAAAAAA	AAGCATTAC	GTCAATGTCC	240
AGAGAACCTG	CTACTAATGC	TTTCTTTGAT	AGGCAGTATG	ATAGGTTGGA	AAGAATATAA	300
ACTGGGATCA	AGCTTGGGTT	CCACTTACCA	GCTGTAGTAT	GTTGAGCAAA	TTATTTAATC	360
TAACACTCGA	G					371

(2) INFORMATION FOR SEQ ID NO:951:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:951:

GCGATTGAAT	TCTAGGGTTT	TTTTTTTTTT	GGGATCCTGG	GTAAAATTTT	ATCCAAAAAA	60
CGGGATTTTT	TTTTTTTTTA	AAAAGGAAAT	TGAATTCAA	AATTTTGGGC	AGCCCCGGCT	120
TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTGGTGGGTT	CTGAGTCTTC	180
ACTTTATTAC	TATGTCACCA	GAAGTCACCA	CCTTCACTTG	GTTCAACCACA	GATGGATGGA	240
TGTCATAAAG	GAGGGTGCCA	CGGGGCCACT	GGATTCACCTC	GAG		283

(2) INFORMATION FOR SEQ ID NO:952:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:952:

GCTTGGCAGA TGCTAACTTC ATGGAAGATG GTAATAGGAA CAGATACTGC TCTCTGCCCC	60
TGCTTCTTGG ATTCTTCAGC TCCTACCGCT GATTCGGATT ATCCCTTTT GACCTCTTG	120
GGGATCCAGA CTGCTGCCAG GAGGCTGAGT AGATACCTCA GTTATCTGTA TGTATTCTT	180
GAGAGGCTTT GCGGATCCT CTCACTTGG CATCCTGTGG CATCCCTAGG GTCTGGTGGT	240
AGCAGTAATA GCAACAATGA TATCTTACAT CTGGAACAAC TCGAG	285

(2) INFORMATION FOR SEQ ID NO:953:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 614 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:953:

GAATTCGGCC TTCATGGCCT AATTCTAGAC CTGCCTGTCT TGAGAGGAAC CTTCCTGTG	60
CTGGCTCCTG TTGTTATCTG TACCTAAGTT ACTCAGTTCT GAGTGCATGT CTGGTAAATG	120
CTGGCCATTT CTTGAAGTT CTGACTCAGA ATCGGCCTCC ATTAGAGAAC TCAGTTCTCC	180
AAACCCAGTC ATGATCTGCC TTAATAATTGA CCGAAGAGCC ACTGATGATG GCTCAACAAG	240
CTCATTCTCA GAAATCCTAC GAAGAGGAAC TGTTATGGTA CTAACATAGG TTCGAATACC	300
TGACCGCTCT AAACGAGAAA TGGTTCGGCG AAAGCCCCCA CTATTGCTTT CAATAGTGAC	360
TGTATTTTCT GCTAGCCCTA CTCTGGATCG AGTTCTATTT GCAATACTAT CCCGATCTCT	420
ATTTTCTCCA GGACGGATCC TTCTCACTTG AAGGTCCAGT GTGATTGTTG GATGTCGTCG	480
TACAGCAGTT GAGGATCTGC TGGATTCTTC TCCTTCTTCT ACTGTTATTC TTGACACAAG	540
CCTTGAATTA GAGAATGGGG TATATGCAGT ACCTCTGCGT TCTCGTTCTC TATCTTGCTC	600
TAAAAGACT CGAG	614

(2) INFORMATION FOR SEQ ID NO:954:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:954:

GAATTCGGCC TTCATGGCCT ACAAGGATTT CAGGATGTTT TTCCTCTGGA CTGCTCTGTT	60
CTGGGGTGGA GTCATGTTTT ACTTGCTGCT CAAGAGATCC GGGAGAGAAA TCACTTGGA	120
GGACTTTGTC AATAACTATC TTTCAAAAGG AGTAGTAGAC AGATTGGAAG TCGTCAACAA	180
GCGTTTGTGTT CGAGTGACCT TTACACCAGG AAAAACTCCT GTTGATGGGC AATACGTTTG	240
GTTTAATATT GGCAGTGTGG ACACCTTTGA ACGGAATCTG GAAACTTTAC AGCAGGCGCT	300
CGAG	304

(2) INFORMATION FOR SEQ ID NO:955:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:955:

```
GAATTCGGCC TTCATGGCCT AGTAGCTATT AATCTGTGGC TATGAAATGA TCAGAAATGC      60
TAAGTGAGAT CAATATTTGT TTGGAAAAAA AATCTTGGGA AACAAACCAA GGGTTTTTCGC      120
TGTGTGTGTT TTTCTTTTTC TATTTTGTN NACTTAGTCC TTTAGCTAGT GGATTTAATT      180
TTGTTGTGCC TGCTTCATTT TGCAATAACA ATGCAGTAGA ATTTAAAACT TGGACGCTCG      240
AG                                                                                   242
```

(2) INFORMATION FOR SEQ ID NO:956:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:956:

```
GCTGCGCTGT ACTTCAGATA CTTTTTCGA GGAACATTG TGATTGTGG CATAAAGTAA      60
CTGTCTAAAG GAAATCTTCT GAGAGGATCT GGTCATTTTA TGAAAGGGGC AATTAAGGGG      120
AAATGGAAGC AGATCTTTTA AAGAAGGAGC ATTTGAAATT AGCCCAGGAA TCATGTCCGG      180
CGAGTCCTGC TCTTTGTAC CTGGGCATAA TAGTCAGCCA CACAGAGCTA GAGTTAGTTC      240
AAGAATTGTC TTTCTGATC GTGCTATATT TTTGGAACA CGCCGTACTC GAG                   293
```

(2) INFORMATION FOR SEQ ID NO:957:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:957:

```
GCAAAGAATG GTAACGTGCT TATCATGGGA GTGTTTGTAG AACTTAGCC AAACCTTCAG      60
CAGAAAAATC CCCGAGAAAG ACCAGAGAGT TCTTACCAC AACAAATGTT CTGCTCATCC      120
CTCTCATCAA ACAAGGCCAT TTGCAAGAG TTTTGATGGG AAATCACTAG GCATCCACCC      180
TACAGTCCTG GTTTGGCACC TTCTGACTTT TTGTTTCCTA ATCTTAAAAA AATTTTTCAG      240
GGCAACTCTC GAG                                                                                   253
```

(2) INFORMATION FOR SEQ ID NO:958:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 466 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:958:

```

GAATTCGGCC TTCATGGCCT ACAACATCAG CTCCTGTCTG GTTCTCCAGC TGCACGACCT    60
CAAACCTACAA CCTCAGCTCT TCCCCGAGTC TTCTGCTGCA TGACCCTCAA TCTAGAACAT    120
AAGCTCCTCT CTGGGTGTCC ACCTGTAGGG ACCTCAAATT AGAACGTCAG CTCCTCCCAG    180
AGTCTTCAGC TGCATGACCC TCAATCTTTA ACATCAGCTC CTCTCCAGG7 CTGCAGCTCC    240
ATGACCCTAA AAATACATGA GCAGCTCCTC CCTGAATCTT CAGCTGTACG ACCCTCAAAC    300
TACAACATCA GCTCCTGTCT GCACCTCCAG CTGCAGGGCC CTCAAACTAG AATATCAGCT    360
CCTCCCCGAG TCTTCAGCTG CACGACCCTC AACTAGAAC ATCAGCTCCT GTACAGATTT    420
CCAACGTAG GGGCCTCAA CTAGAACATC AGCTCCTCCC CTCGAG    466

```

(2) INFORMATION FOR SEQ ID NO:959:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:959:

```

GGAGCATGTC CTGTTATTTA TTAACTTTT CCATTTTCAT TTTTATTTG GGTAAGATAA    60
TTGCTTATGA TAAGCCTTGG GTGTGGAGAG CCGGTGCATA CAGAGTGGCG AGGCAAGCTT    120
CAATCTGCAG TCTCGAG    137

```

(2) INFORMATION FOR SEQ ID NO:960:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:960:

```

GAATTCGGCC TTCATGGCCT AGAGCCGCGG CTCATGCGCG GTGCACAGAG GCTTGTTTCA    60
CATCTGTAAC AACAGGAGGA GGCCAGCCT CGTGATGAGG AATAGCAAGG AGAGAATTCA    120
GCTCCAGTTC AAAAGCCTAC AAAATCTGAG ACTGTCATTG CTTTATAAG GATTCCAGCT    180
TTCCCTCCTG GCCAGAAATG TTCAGCCTGG ACTCATTGAG AAAAGATCGG GCCCAGCACA    240
GGCAGCGTCA GTGCAAACCT CCCCCACCCC GCCTTCCACC CATGTGTGTC AACCCTACCC    300
CAGAAGGAAC CCTCGAG    317

```

(2) INFORMATION FOR SEQ ID NO:961:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 470 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:961:

```

GAATTCGGGC TTCATGGCCT ACTCTGCTCA ACCTGCACAT CACCCACCAC AGTCACCAGC    60
ACAAATTCAG ATGCAACTAC AGCACGAATT ACAACAGCAA GCCGCATTCT TTCAGCCTCA    120

```

```

GTTTCTAAAC CCAGCCTTTT TGCCTCATTT TCCTATGCC CCAGAAGCAC TGCTGCAGTT 180
TCAGCAGCCT CAGTTTCTCT TTCCATTTTA TATACCTGGG ACGGAGTTCA GCTTGGGGGCC 240
AGATTTGGGC TTGCCAGGCT CTGCCACATT TGGGATGCCT GGCATGACAG GAATGGCTGG 300
CTCCTTGCTT GAAGACCTAA AGCAGCAGAT TCAAACCCAA CATCAGTTG GTCAAACCTCA 360
ACTCCAGATA CTACAGCAAC AAGCACAACA ATACCAAGCC ACACAGCCCC AGCTGCAGCC 420
TCAAAAACAA CAGCAGCAGC CACCACCTCC ACAGCAACAA CAAGCTCGAG 470

```

(2) INFORMATION FOR SEQ ID NO:962:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 603 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:962:

```

GAATTCGGCC TTCATGGCCT AGGAGAANGA CGTGCTGGTG AACGTGAACC TGGTGGATAA 60
GGAGCGGGCA GANAAAAATG TGGAGCTGCG GAAGAAGAAG CCTGACTACC TGCCCTATGC 120
CGAGGACGAG AGCGTGGACG ACCTGGCGCA GCAAAAACCT CGCTCTATCC TGTCCAAGTA 180
TGACGAAAAA CTTGAAGGGG AGCGGCCACA TTCCTTCCGC TTGGAGCAGG GCGGCACGGC 240
TGATGGCCTG CGGGAGCGGG AGCTGGAGGA GATCCGGGCC AAGCTGCGGC TGCAGGCTCA 300
GTCCCTGAGC ACAGTGGGGC CCCGGCTGGC TCCCGAATAC CTCACGCCTG AGGAGATGGT 360
GACCTTTAAA AAGACCAAGC GGAGGGTGAA GAAAATCCGC AAGAAGGAGA AGGAGGTAGT 420
AGTGCGGGCA GATGACTTGC TGCTCTCGG GGACCAGACT CAGGATGGGG ACTTTGGTTC 480
CAGACTGCGG GGACGGGGTC GCCGCCGAGT GTCCGAAGTG GAGGAGGAGA AGGAGCCTGT 540
GCCTCAGCCC CTGCCGTCGG ACGACACCCG AGTGGAGAAC ATGGACATCA GCACACTCTC 600
GAG 603

```

(2) INFORMATION FOR SEQ ID NO:963:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:963:

```

GAATTCGGCC TTCATGGCCT ACAACAGCGT TAGGTTTTTT TTTNGTTNG TNGTTNGTT 60
TNGTTTTTTT CCAACCCTCT TTCGGATGGA CGGGGAAAGA GAGAAAGAAA AANCGAGGGA 120
AAATCNACAA AATGTGCGAT GCAAAGAGTC GATTTTCGCG GGGTTTGTC ACTTCGCCAC 180
TGCCGCACGC GAATCGACGT CGTCACGTGA CGGTCTGCCT CCGCCCTTAT TAACTCTCAG 240
CCCAGCGGCG GTTTCAGGA CCTCAGACTT TTTGCCGAGG CGGCAGTCCC TAGACGAAGC 300
GAAGGAGGCG GCGCCTGCCC CGCCACAAG AGCTGCCGCG CGCGGGTGTT ATAGCTCCAC 360
CCCATCTGCA AAGGAAGGGG GAGCGGAAAG AGCGGGATCT AGCGGGAAC TCGAG 415

```

(2) INFORMATION FOR SEQ ID NO:964:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:964:

GAATTCGGCC TTCATGGCCT AGCGGGTCTT CAGACAAGTG GAAAAGGTGA GAGAGGAGAT	60
CAGGGCGCAG AGCCCCGTGG AGGCTGAGTT TCCATATGGG CAACTGAGCA CATCCTGCCA	120
CTCCCACCTC GTGCCTCAGA ATNGACACCA GGCTACTCAT CTGGAGGTGA CCAAGCAGCC	180
AACCAATCGG GTCCCCTGGA GGTCTCAAA TGCTCCCCA TACCTTGTTT CAGACCTCGA	240
G	241

(2) INFORMATION FOR SEQ ID NO:965:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:965:

GAATTAATAG CCTGCAGGTT AATTACTCCC TGAAGGGTAT TGTGGAAAAG TATAACAAGA	60
TCAAGATCTC TCCCAAAATG CCAGTATGCA AAGGACACTT GGGGCAGCCT CTCAACATTT	120
TCTGCCTGAC TGATATGCAG CTGATTGTG GGATCTGTGC TACTCGTGGG GAGCACACCA	180
AACATGTCTT CTGTTCTATT GAAGATGCCT ATGCTCAGGA AAGGGATGCC TTTGAGTCCC	240
TCTTCCAGAG CTTTGAGACC TGGCGTCGGG GAGATGCTCT TTCTCGCTTG GATACCTTGG	300
AAACTAGTAA GAGGAAATCC CTACAGTTAC TGAATAAAGA TTCAGATAAA GTGAAGGAAT	360
TTTTTGAGAA GTTACAACAC AACTGGATC AAAAGAAGAA TGAATTCTG TCTGACTTTG	420
AGACCATGAA ACTTGCTGTT ATGCAAGCAT ATGACCCAGA GATCAACAAA CTCAACACGC	480
TCGAG	485

(2) INFORMATION FOR SEQ ID NO:966:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:966:

GAATTCGGCC TTCATGGCCT AACGGCTCCC TCACTTGTTGA ATTAAAGTCA GAACTGCCC	60
TAAGGTTCTT CTGTTTCTG CTTTGTGGAG AAAGCTTTCA GCAGCAATAT CTGGGATCAC	120
TGGTGTATTA AATGTCAGGC CTCGCATCAT TATTCTGCCC TGAGCTGATG GTAAACCGGG	180
CACCCAGCCT TTTAGCTTTC ATCCAGCACG AGGGAAGTTG CCTTCAGATG TGACACGTAC	240
AAGTCAAAA AGCTCAGAGT CAGCTCCAAC GTCTATTGGA TCCCACTCTA TCGCCTTTAA	300
AAAGGAAAAG AAAATCGAAA CGAACTCGAG	330

(2) INFORMATION FOR SEQ ID NO:967:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:967:

GAATTCGGCC	TTCATGGCCT	AGGGTCGCAG	ACTCAAATGC	CCACAGGGGC	CAGGTTAGGT	60
TAGCGGCTGA	AGCAGTCTGG	GGAGAGGCAA	AAAGCAATGG	CAGGGAGGTG	GGACAGAGGA	120
ATGTGGGCCC	CAAACATATG	GGGCAGCTGC	TACTCAGTGC	CAGCTGTTCC	TCGCCATGGG	180
GGGAAGCGGG	ACCAGAGCCG	CCGGGTCTTC	GGCTTTTTC	AGAGGACGCA	TAACCTCCGA	240
TTGTTATTG	AACTGTCCTG	ACTTTGGTAA	GACTCTGTGA	CGGTGACAGT	GAAGGAGGCC	300
GACTCATCGT	CAATTTACA	CAAGTACTCG	CCGGAGTCCT	CGAG		344

(2) INFORMATION FOR SEQ ID NO:968:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 531 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:968:

GAATTCGGCC	TTCATGGCCT	AGGATGCAGC	CGAAAAGGAT	CGCAAGCTTC	AGGAGAAAGA	60
GAAGCAAATC	GAAGAGCTGA	AGAGGAAACT	GGAACAAGAG	CAGAAGCTCG	TGGAAGTGCT	120
GAAAATGCAA	CTTGAGGTTG	AAAAACGAGG	GCAGCAGCAG	CGGCCCTGG	AAGCCCAGCC	180
CAGTGCCCA	GGTCATTCTG	TCAAGTCAGA	TCAGAAGCAC	GGCAGCCTTG	GCTCCTCCAT	240
CAAAGATGAG	GCCTCACTCC	CTGACTGCTC	CAGCTCCAGG	CAGCCCATCC	CAGTAGCCAG	300
CCAGCTGTA	GGCCAGCCCG	TCTCTACAGG	TGGCCAGACC	CTTGTTGCCA	AAAAGGCTGT	360
AGTTATCAAG	CAAGAGGTCC	CTGTGGGCCA	GGCAGAGCAG	CAGAGTGTGG	TCTCGCAGTT	420
TTATGTGAGT	TCCCAGGGAC	AGCCACCGCC	TGCTGTTGTT	GCTCAGCCCC	AGGCTTTACT	480
GACCACGCAG	ACTGCTCAGC	TGCTGCTCCC	AGTGTCATC	CAGGGCTCGA	G	531

(2) INFORMATION FOR SEQ ID NO:969:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:969:

GTGCCTCGAG	AACTGCCTA	TTCAGAAACA	CAGAAACACC	GAGACCTCAA	AATCCCCTGA	60
GAAGGACGTT	CCCATGGTAG	AAAAGAAGAG	CAAGAAACCC	AAGAAGAAAG	AGAAAAACA	120
CAAAGAGAAA	GAGAGAGACA	AGGAGAAGAA	GAAGGAGAAG	GAGAAGAAGG	CTGAGGACCT	180
GGACTTCTGG	CTGTCTACCA	CCCCACCGCC	TGCCCCCGCC	CCCCCCCCCG	CCCCCGTTCC	240
ATCCACGGGG	GAGCTCAGTG	TGAACACTGT	CACTACCCCG	AAGGACGAGT	GTGAGGACGC	300
CAAGACGGAG	GCGCAGGGCG	AGGAGGACGA	TGCCGAGGGG	CAAGACCAGG	ACAAGAAATC	360
TCCAAGCCT	AAGAACAAGA	AGCTCGAG				388

(2) INFORMATION FOR SEQ ID NO:970:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:970:

```
GAATTCGGCC TTCATGGCCT AGCTTACACT GGGCCAAGTG CTTGCCAAGG ATTCTCATGT    60
GACATTTCTT TCAGTCCTGC CGAGGACTTT ATGAGGGAAG CACCCTGTTT TACAGAGGGA    120
AGGGGGCCTA TGGGGTCTAC AGCAGTGAGA GCCTAGAGTT CAGTCTGCGT CTCCTGATT    180
CCAAAGCCTG TGATTGTGAC TTCCATACTC TCCCTAAGAC ACATTCATAC ATTCAACTGA    240
ATATTTATTG AGCACCTACT GTGTGCTAGG GATAGAGCAG TAAATGAATC AGGCAAAAAAT    300
TATTACATT CCACTGGGGC TGACAAACCC AAACAAGGAA GAGGTGTAGT GCTTCGGGTC    360
TCGAG
```

(2) INFORMATION FOR SEQ ID NO:971:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:971:

```
GCAAAAGTAA TATGATTTGT TTAAATACT CAGTCAACAG GTATTCCTG AAAATATTTT    60
CCATAGAAAG TAGAATATGG TTCTCCGAA TAAAAACTGA TCCATTTTAC CTTTTCCTT    120
CCCTTTTGT TNNGGTATTT TTTTTCCTT TTTCTTTNN GCTTTTTTCC TTAACTTTC    180
CAGCCAAAGG CTTCTATGAT CTGTATGCTT TAAATGAAGC TGCTTGACA AGTGCCACA    240
GCCAGTTGGT TCCTGTAAT GTTTGTGGG GTACCTTCCT GCCAGACAGA CTGATTGTTC    300
ACCAACGATC TTGTAAACCC AAAGCTCTCG AG                                332
```

(2) INFORMATION FOR SEQ ID NO:972:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:972:

```
GCGCCCTCAC CCCTCCAATC CCCCTCTGA CCCCTCTTC CTCACATGGG GTCGGGGGCC    60
TGGGAGTTCA TTCTGGACCA GCCCACCTAT CTCATTTC TTTTATACAG ACTTTGAGAC    120
TTGCCATCAG CACAGCACAC AGCAGCACCC TTCCCCTGAG GCCGGTGGGG AGGGGACAAG    180
TGTCAGCAGG ATTGGCGTGT GGGAAAGCTC TTGAGCTGGG CACTGGCCCC CCGGACGAGG    240
TGGCTGTGTG TTCACACACA CACACACCTC GAG                                273
```

(2) INFORMATION FOR SEQ ID NO:973:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:973:

```

GAATTCGGCC TTCATGGCCT ACTCTGTCTC AAAAAAAAAAT AGTAAGTTGT GTAAAGAAAA    60
ATATTAATTA TATAATATGG CAGTTCCTAT GAGAGTGTGG CAAAAATCAA GAGGGCTTGG    120
AAGTTTTTTC TTTGCTCTTG CAACTGGCTG GATGCAGTTC ATATATTTTT CAACCAGTAG    180
GTGGCACCCC AACCTAATTT TTTGCAGTTG TAACCTGGTG GCAGAAGGGG CAGGACTGAT    240
GGCTTGGGCA AGACTGTTAT GCCAAGTTCT CGAG                                274

```

(2) INFORMATION FOR SEQ ID NO:974:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:974:

```

GAATTCGGCC TTCATGGCCT AGTGAGATAG TACCAGATTT AGAATATAAT TTTATCTTTC    60
TTTAGCAACA AGCCCTAACA ATATCCAAAC TAAATAAAAT CATTACATGA ATTTACTTTT    120
TACAATCATT CTCCTAAGGC TCGAG                                145

```

(2) INFORMATION FOR SEQ ID NO:975:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:975:

```

GAATTCGGCC TTCATGGCCT AGGAAATAAC AGTTATTTC TCATAAAACA GTCCCTTCAA    60
ACACACAATT GTTCTGCTGA AGAGTTGTCA TCAACAATCC AATGCTCACC TATTCAGTTG    120
CTCTGTGGTC AGTGTGGCTG CATAGCAGTG GATTCCATGA AAGGAGTCAT TTTAGTGATG    180
AGCTGCCAGT CCATTCCCAG GCCAGGCTGT CGTGCCCAT CCATTCAGTC GATCATCTCG    240
AG                                242

```

(2) INFORMATION FOR SEQ ID NO:976:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:976:

```

CATGTGCACA CTCGCACATG CACATATGGG CACGTGGGAA GACGGGAGAA GTACTGTCAA    60
AGTATAAGGA ACTGCAGAGG TTGGGATTTA CTGGAAGGGA AGGGAGCACA CTCGAG    116

```

(2) INFORMATION FOR SEQ ID NO:977:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:977:

```

GAATTCGGCC TTCATGGCCT AGCATGGCAA CAGATATGTG GAGCATTGGA GTGTAAACAT      60
ATGTCATGCT TACAGGAATA TCACCTTTCT TAGGCAATGA TAAACAAGAA ACATTCTTAA      120
ACATCTCACA GATGAATTTA AGTTATTCTG AGGAAGAATT TGATGTTTGG TCTGAGTCGG      180
CTGTTGATTT CATCAGGACA CTTTATGTTA AGAAACCTGA AGATCGAGCC ACTGCTGAAG      240
AATGTCTAAA GCACCCCTGG TTGACACAGA GCAGTATTCA AGAGCCTTCT TTCAGGATGG      300
AAAAGGCACT AGAAGAAGCA AATGCCCTCC AAGAAGGTCA TTCTGTGCCT GAAATTAATT      360
CGGATACCGA CAAATCAGAA ACCGAGGAAT CCATTGTAAC CGAAGAGTTA ATTGTAGTTA      420
CTTCATATAC TCTAGGACAA TGCAGACAGT CAGAACTCGA G              461

```

(2) INFORMATION FOR SEQ ID NO:978:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:978:

```

GAATTCGGCC AAAGAGGCCT AATGATGATG AATAAGTTGG TTCTAGCGCA GTTTTTTTTT      60
TTTCTTGTCT ATAAAGCATT TAACCCCCCT GTACACAACT CACTCGAG              108

```

(2) INFORMATION FOR SEQ ID NO:979:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:979:

```

GATGGCGTCG GGCAGCGGGA CAAAAAATT GGACTTTTCG CGAAAGTGGG ACAAAGATGA      60
ATATGAGAAA CTCCCGAGA AGAGGCTCAC GGAAGAGAGA GAAAGAAAAG ATGGAAAACC      120
AGTGCAGCCT GTCAAGCGAG AGCTTTTACG GCATAGGGAC TACAAGGTGG ACTTGGAAATC      180
CAAGCTTGGG AAGACAATTG TCATTACCAA GACAACCCCT CAATCTGAGA TGGGAGGATA      240
TACTGCAAT GTCTGTGACT GTGTGGTGAA GGACTCCATC AACTTTCTGG ATCACATTAA      300
TGGAAGAGAA CATCAGAGAA ACCTGGGCAT GTCTATGCGT GTGGAACGTT CCACCTGGA      360
TCAGGTGAAG AAACGTTTTG AGGTCAACAA GAAGAAGATG GAAGAGAAGC AGAAGGATTA      420
TGATTTGAG GAAAGGATGA AGGAGCTCAG AGAAGAGGAG GAAAAGGCCA AAGCGTACAA      480
GAAAGAGAAA CAGAAGGAGC TCGAG              505

```

(2) INFORMATION FOR SEQ ID NO:980:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:980:

```

CGAGGGACAT GAGGCTGAGC TGGTTCCAGG TCCTGACAGT ACTGTCCATC TGCCTGAGCG      60
CCGTGGCCAC GGCCACGGGG GCCGAGGGCA AAAGGAAGCT GCAGATCGGG GTCAGAAGC      120
GGGTGGACCA CTGTCCCATC AAATCGCGCA AAGGGGATNT CCTGCACATG CACTACACGG      180
GGAAGCTGGA AGATGGGACA GAGTTTGACA GCAGCCTGCC CCAGAACCAG CCCTTTGTCT      240
TCTCCCTTGG CACAGGCCAG GTCATCAAGG GCTGGGACCA GGGGCTGCTG GGGATGTGTG      300
AGGGGGACCT CGAG                                     314

```

(2) INFORMATION FOR SEQ ID NO:981:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:981:

```

GAATTCGGGC TTCATGGGNT ACTCATTGCT ACATTGCTAG TTGACCCGCA GTTATATTTTC      60
CTTTTTTCT TTTTAATAAA AGGCAAGAGA AACAATCCGT TTTTGCTTT TCCTACCACA      120
TCTTTGACTT TTCTGATTCC TGCAAGTTTA AGTTAAAAAC ATCCTACCTT CAAGCTACAA      180
AATGCAGCAC ATCCCAGGAC ATCCCTCACC TGCTTTGCTT GTTTATTAGA CACAAGTGGC      240
TTTGTTTCAA AAGTTACTGG GAACCGCTAA GGATAGTCAA GGTGGAGAAC ACAGGGTGGG      300
GTCTCAGAGT CTGAGGCCTT GGTTCAGGTT CCTGATAACA TTAAATATAG AAAATACACA      360
GCACAAGGCC AAACCTGAG                                     379

```

(2) INFORMATION FOR SEQ ID NO:982:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:982:

```

GAATTCGGCC TTCATGGCCT AGAAGATGGT AAGGTTGAA TCTTTCGGGT GATGGGAGTT      60
AAGTGTGAAC AGGAACTGGG ATTTAAGGGC CACACTTCAG GGGTATCCCA GGTCTGCTTT      120
CTCCAGAAT CCTATTTGCT GCTTACTGGA GGAATGATG GGAAGATCAC GTTGTGGGAT      180
GCAACAGTG AAGTTGAGAA AAAACAGAAG AGTCCACAA AACGTACCCA CAGGAAGAAA      240
CCTAAAAGAG GAACTTGAC CAAGCAGGGT GGAAATACTA ACGCTTCAGT AACAGATGAG      300
GAAGAACATG GCAACATTTT ACCAAAGCTA AATATTGAAC ATGGAGAAAA AGTGAATCG      360
AG                                     362

```

(2) INFORMATION FOR SEQ ID NO:983:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 574 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:983:

```

GAATTCGGCC TTCATGGCCT AGGCCACTGA TATTTTCTA AGTTAGCAAG GCTCACTTGC      60
TTGCTTTCTT GCCTCCCTTG CCTCCATCCC TCTCCCTTCC TACCTTCTCT ATTACCTAT      120
TTCTCTCCCT CCCTCTCTTC TCCTCTCTTT TTTTTCCTCC CGCATATGCA GCTTTTGTAT      180
TGTAAGTGAT TTTATAGAGA CTGCACAGTT CCAGCAAGAT TGGGAGTCAG GCATGGAGCA      240
GGCATCTCAG GCTACCAGAA AGAATTGGTC ACCTAGACTT TCAGTCAGGC ATCCTCGTTT      300
GCATTGTCCT GTAAGTCAAT TAGTTGATAA ATAGTTCCCT CTTCATCCCT TAAGTTTGT      360
TTTTGTTTTT GTTTTAATA TAGGTAAGTG GGACTCTACC TAAAATTTTG CATCATACTT      420
ATGGGTAATA TCTTTTTCAT ATATTATTTA TCAAAGTATG AAGTTGAGTA TTTTGCTTGT      480
ACCATTTCAA TTCTGCATTA TAGTAGTTCA TTGTATAACT GAAAGAAATG ATTTCTTCAT      540
AAGTGACATT AAATATGAAC ATTCATCTCT CGAG                                     574

```

(2) INFORMATION FOR SEQ ID NO:984:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:984:

```

GAATTCGGCC TTCATGGCCT ACGATTGAAT TCTAGACCTG CCCCCTCCCT CCATGCCTCA      60
TCCCCCGCCC CCTCCAGTCA TGCCGCAGCA GGTAAATTAT CAGTACCCTC CGGGCTATTCT      120
TCACCACAAC TTCCACCTC CCAGTTTAA TAGTTTCCAG AACAACCCTA GTTCTTTCCT      180
GCCCAGTGCT AATAACAGCA GTAGTCCTCA TTTCAGACAT CTCCCTCCAT ACCCACTCCC      240
AAAGGCTCCC AGTGAGAGAA AGTCCCCACT CGAG                                     274

```

(2) INFORMATION FOR SEQ ID NO:985:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:985:

```

GAATTCGGCC TTCATGGCCT AGATAAGGAG ACTTCAGAAG AGAAGCCGCC AGCTGAGGGA      60
AGTGAGGACC CTAAGAAGCC ACCCCGCCCT CAGGAGGGAA CAAGATCTAG CCAGCGAGAT      120
CAGATACTCT ATCTTTTGG GAGAACTGGC CGAGAAAAAG AGGAATGGTT TAGGAGATTT      180
ATTCTGGCAT CTAAGCTAAA GTCGAAATC AAGAAGTCAT CGGGTGTCTC TGGAGGTAAA      240
CCAGGGCTTT TGCCTGCACA CAGCAGACAC AACAGTCCGT CCGGGCACCT GACCCACAGC      300
CGCAGCAGCA GCAAAGGCAG TGTGGAGGAG ATCATGTAC AGCCAAAGCA GAGGGAGCTA      360
CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:986:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 451 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:986:

```

GAATTCGGCC TTCATGGCCT ACTCTCTTCC AACCAAAAGT CTTAATATGG GAATATCCCT      60
CACCACGATC CTAATACTGT CAGTAGCTGT CCTGCTGTCC ACAGCAGCCC CTCCGAGCTG      120
CCGTGAGTGT TATCAGTCTT TGCACCTACAG AGGGGAGATG CAACAATACT TTACTTACCA      180
TACTCATATA GAAAGATCCT GTTATGGAAA CTTAATCGAG GAATGTGTTG AATCAGGAAA      240
GAGTTATTAT AAAGTAAAGA ATCTAGGAGT ATGTGGCAGT CGTAATGGGG CTATTTGCCC      300
CAGAGGGAAG CAGTGGCTTT GCTTCACCAA AATTGGACAA TGGGGAGTAA AACTCAGGT      360
GCTTGAGGAC ATAAAGAGAG AACAGATTAT AGCCAAAGCC AAAGCCTCAA AACCAACAAC      420
TCCCCTGAA AATCGCCCGC AGCATCTCGA G                                     451

```

(2) INFORMATION FOR SEQ ID NO:987:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:987:

```

GAATTCGGCC TTCATGGCCT AGAGAACTG AGCAAAAATA GCTGCCAAGA GAAGAGGGAA      60
CGAGTGCTCG GGGCGGGTTG GAGGCAGATA ACGAGAAGGC AAGAAAATTC TTTGTCTTTG      120
GCTCCTGCTG TCAGCTCAGA GGGGTCATCT TGAGATGAAA AAGAAAAGTC CCCAGCCTTG      180
GGGAAGGAAA GGAGAGGGTG CCCACGCAG ATATGAAGCA AAGCCATTGG CAAGATATTC      240
TCTCTAAGGA GAGCAGCGGT CTTGCCAAAG GCATCTTCTA TTGTGTATTG CCGTCATAAA      300
CCCTACCCTT CCATGTAGAT AGCCAGGACT CGAG                                     334

```

(2) INFORMATION FOR SEQ ID NO:988:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 509 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:988:

```

GAATTCGGCC TTCATGGCCT AAGAGAAACA AAAATGATTT TGCTTTCCAA GCTTG GTTTG      60
TGGCGTCTCC CTCGCAGAGC CTTTCTCGTT TCTTTTTTAA ACTAATCACC ATATTGTAAA      120
TTTCAGGGTT TTTTTTTTGG TTTAAGCTGA CTCTTTGCTC TAATTTTGGG AAAAAAGAAA      180
TGTGAAGGGT CAACTCCAAC GTATGTGGTT ATCTGTGAAA GTTGCACAGC GTGGCTTTTC      240
CTAAACTGGT GTTTTTCCCC CGCATTGGT GGATTTTAT TATTATTCAA AAACAAAATG      300
AAAAGGTTAT TTACTTTTTT TTTCTGAAA TGCTGACAAT ATGTGATATC TTAATATCTG      360
TAATTCTTAG TGAAAGTTAT GGTATAGTAT AGGTGAAGCT GTAGTGTTTA TATCAATAGA      420
TGTGAATTCA AATGAGCAAT CTAATAATTA TTTACTATTC AATTATGTTA ATTTTCTTCT      480
CTTTGTCTCC CATTGTATCT GCACTCGAG                                     509

```

(2) INFORMATION FOR SEQ ID NO:989:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 409 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:989:

```

GAATTCGGCC TTCATGGCCT AGGCTTGTGG GCAGGGCCCCG TGCAGGTCAT GGAGCCCGTA      60
GCATCTCAGA GCTGGACAGA GGAGGTAGGC TGGGAGCAGG CCCGGTTGGG GACCAGTGGC      120
CCCTGCACAG GAGCCAGAGG GCCTGGGCAG CTGTCTGTCC AGAAAGCATG CAAGACCCCG      180
TGCCACCCGG GCACACAGGG CTGTCTGTGC TAGAAAGAGA TCTCCTGGGG TCACGGGCAG      240
GCAAAGCTGA TTGATTTTGG CCGTGAAGTT TGACCTTGTG ATGGAAACCG AGCTCCCAGG      300
GAGTGAGACA AACTGCCTCC CCGTGTCA GTGCCAATAAA CCTGACTTGG TTTTACAGCC      360
CCGAGAAATT GCTCACTAAT AGCCAGACAG ATGCTCCCCC TGCCTCGAG      409

```

(2) INFORMATION FOR SEQ ID NO:990:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:990:

```

GAATTCGGCC TCATGGCCTA CCCAAATCTG AAGTCTTTGG ATATGTTACT GCTGAAGTTT      60
CTATCACTTC TCACTCCTGG TTCTTGTTT CCCTGTATGC TTTTTTTTTT TTTCATGAG      120
TTCACTTTTT TAAATTATAG TTCTCAAGG CCTAGGATGC AGGTGTGTTC TTCCATAAAG      180
GGCTATTTTG CCTCTGCCGA GGTCTCGAG      210

```

(2) INFORMATION FOR SEQ ID NO:991:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 447 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:991:

```

GAATTCGGCC TTCATGGCCT AGTAGATAGT ACAAATTC AAGATATCA AAGTGTGTTA      60
AGTTTACCTT TCCACCCACT TTCTCATT TTGTCTCCCC AGTTCCTTT GCATTATTCC      120
ACGTATATTC TGTGCATATA TACATTCATA TACATTTATC TGTATGTGTC AGCTTCTTTT      180
TACACAAATG ATACATAAAC ACTGTTCTGG ACCTTCCAAC TTAGAATTAC TGCAAACAGT      240
GTCGTGATGA ATTACCTAAT TCTGTGATG TGTGTATATT GGTAGAAAAA ATTCCCGGAA      300
GTAGAATTGC TAGAACAAAG ATTTATGTCAT TTAAATATT CCTTTATTAT AAAACTAATG      360
AAAGTAAACA TGTGGCTAT GACCACGTAT GCTCTATGCT CAGTTTTTCT AGAGTTGTGT      420
ATGCTTAATA TAGGAGCCTG CCTCGAG      447

```

(2) INFORMATION FOR SEQ ID NO:992:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:992:

```

GAATTCGGCC TTCATGGCCT AGCCCATGT TGTATTATTT GAATTAATTT CAAGCTTACA      60
GAAGAATTAT AAGAATTATA CAAAGAGCCC TTGTATAGCC TTCATCCAGA TTCCTCATT      120
ATAGTTATCT CCCCCACACA CGTAATGCAC AGACACTGCA TGCATTTTCC TTTTCTTTT      180
TCTCTTCTTT CTTTCTCTTT TTCTCTCTTT CCCTTTCTCT TCTCCCTCCC CTCCCCACCC      240
CTCCCTCCC TTCCTCTCCC TTCCCTCCT CTTACTTCAG CCTCTAGAAT AACTAGACTC      300
GAG                                                                    303

```

(2) INFORMATION FOR SEQ ID NO:993:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:993:

```

GAATTCGGCC TTCATGGCCT AGGATTGGT AGGGTAACTT GAAAACTGAG TTAAATGAGA      60
AAGGTAGAAA AAATTCGTAC TTTTCTCTCT CCCCACAAA AATAAAAACA GTAAAATCTT      120
TACCAACTGA AAAAGCTGTT GAAATTTTCT GTATGTTAAA AAAATGAGCT TTGCAGTAAC      180
TCTTAAATC ACCTAGCAAA ATAGGAACTA TAATGTGCAT CTTTCCTTCA CTAAACATT      240
TATTGCATCT CTTCTTGATG CTGATGATTG AGGACACACA TTCTGCTTTC CTGGGGCTTA      300
TGGTTTATA TAAAACCAA AGCAAAGTAG AAAGTATACC TCCTACCAAG GGGCTCGAG      359

```

(2) INFORMATION FOR SEQ ID NO:994:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:994:

```

GAATTCGGCC TTCGGCCTTC ATGGCCTAGA GGAGGACCAA GGCTTCAAAG GCCCTGCCC      60
GCGCGTCCTG CAGGTTCCTCA TTGTCCGTGT TAATAGCCTC AGATGGGCAT CAGTTGCCCT      120
GATGGGCTTG GGCTCCACGC CCGGGCTTGC ATGTTTGGCA AAATTACTCA AGAGCATTTC      180
TTTTTTTTTT CTTTGAGACT CCGTCTCAA AAAAAAAAAA AAAGAGATCC TCAGCTGTTG      240
TTTCTGAAT CAGATATTTG GATCACTCTA GCATCCAATC ATGCAGCTCC TAAATATGCT      300
CCTAAATCAT GCAGGTCCAA TCACGCACCT GTTTTACGGT TTATCAATTT GTGCTCATCC      360
TGAATAAAT AAACAAATCC ATGAGCCAAC TGCAGCACCA CTCGAG                        406

```

(2) INFORMATION FOR SEQ ID NO:995:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 603 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:995:

```

GAATTCGGCC TTCATGGCCT ACCATCTTGG AACCTCCTCC CATGATTGCC TTATTATTTT    60
AAATACATTA ATGTAGATCA ATGAAGAATA AGAAAATAAG CAATTTTATT TTACCTTAAT    120
TTATTCTGTT TCTGATGCTC TTTGTCTCTC TATGTAGGTC TGACTTTTGG ACCTACATTA    180
TTTCTTTTCC CTCCTAGGAA TTTTAAAAG CATTCTTGT AAGGCAGGGC TACTGAAAAC    240
AAATTTCTC AATATTTGCT TGTCTACAAA AGTCTTTATT TCTCCTTTAC CTTTAAAGGG    300
AAATTTACA ACCTACAGAA TTCTAGGTTG GTGGGTTTTT TCCCCCTCAA TCCCTTAAGT    360
ATTAAATCC TCTCTTCTTG CTGTCATGGT TTGTAAGGAA GAGTCAGATG TAATTTTTAT    420
CTTGCTTCT GTATGGGTAG GGTGCTTTTT CTTCTAGATT TTTTTCAG AGTTTTC    480
TTTATCTTG ATTTCTGTA CTCAAATAT ATTATGCCCA GGTATAGATT GTTTTGTGTT    540
CTGTTTTGT TTCATTGG CATTTGTCT GCTTGGTGTT CTCTGAGCTT CCCGGATCTC    600
GAG                                                                    603

```

(2) INFORMATION FOR SEQ ID NO:996:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:996:

```

GAATTCGGCC TTCATGGCCT ACAGAGAATG AAACATGGAG CTCACATTCT GATGGGGGAG    60
AAATAAAAT CATATCAGAT GGTGATGAGC TTTTCGGTTT TCTATTCTA TTTATGAAGA    120
ATAAAATAAG GTAATAGAGA TAATGTGATG AAAATTCTAA CATTCTCTAC CTTTCCTGAA    180
TCTTAATCT ATACCTTCTG TTCTTACATT TTCTACTTAA TTTTATTTAA TACAACCTGT    240
AGCTAAACTT TTATTTTCT TTCACTCCTG ATTCTTAACC CCTATCCATG CTAATTTTTG    300
CCTTCACTAT TCCACAAAAC TTACCCACTG TCGTATTATT ATCTTCTATT AAAAGCCAGT    360
ATTCTCTTT CAGTTTTTAT CTTCTTGAT CTACACTGAA CATGATTGCC TTTCTCTCTC    420
TTATATCACT TGCTGCTATC TGCACTCAA CTAGCCTCGA G                                                                    461

```

(2) INFORMATION FOR SEQ ID NO:997:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 470 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:997:

```

GAATTCGGCC TTCATGGCCT AGTGATTGG GTACAGACAC AGCCAAACCA TATCATTACA    60
GATATAAATC TCTGAGTAAA TCCGGTGTTT GATTTCTTCT AGCTTTTATG CTTATGAGTA    120
GAGGTCTTTC TCCTCTACTC CAAGAATTTT CATAGACACA CCACTTAGTA CTTACGTTTA    180
CCACCATTGT TATTATTTT AAGAATGTAC TACTTTATAT TTTTAAACAT GAAGGACTAG    240
CTCAAAATTT TGTAGCTTCC CCCCCGCC CAATCTTTT TTTTTTTT ACTCCTTGT    300

```

GATGGGTAGT GGTTTAAAGA CAGCAAAACA TGACCTTAAC CAGAACACTA ACTAGCTTTA	360
TACATAATTC AGCCTATGAA CATGTATCTG GCAAGAGAAA TTCCTGATCT GTGGTTCGGC	420
AGATCCATGA GAGCTGCTTC TCCGGATTTT CTTTGCTGGC CCCTCTCGAG	470

(2) INFORMATION FOR SEQ ID NO:998:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:998:

TTTAAAGAGA GTTGGCTTAT TTCTCCAAA AGCATTPTGT CAGTTCGTCA TTTTGACAGT	60
TAAGTGTCCG TTTTACCTG CATTCTAGG TGCTAAACT TACAAGTGTA TCTCTGAAC	120
ACAGGCATG ATCCTCTACC AATGAATAAT TGAGAGAGGT AGGAATGACT GATTTTCTA	180
GTTGTAGTTT GAAAGATTAA TTGATGAAT TGGAAAGTAT GGAAACTATT CTGTTACTAT	240
TGCAAAGAAA GATTTATTTT TTAAAAAAT TTATTTTAT TTATTTTATT TTATTTTTTT	300
GGGCAGGTCT GGCTCTGTCA CCCAGGCTGG AGTGCACTGG CAGACTCGAG	350

(2) INFORMATION FOR SEQ ID NO:999:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:999:

GGAGTATTGT TACAATCACA TTTGAAGTAC CAGGAAATGC AAAGGAAGAA CATCTTAATA	60
TGTTTATTCA GAATCTCCTG TGGGAAAAGA ATGTGAGAAA CAAGGACAAT CACTGCATGG	120
AGGTCATAAG GCTGAAGGGA TTGGTGTCAT TCAAAGACAA ATCACAACAA GTGATTGTCC	180
AGGGTGTCCTA TGAGCTCTAT GATCTGGAGG AGACTCCAGT GAGCTGGAAG GATGACACTG	240
AGAGAACAAA TCCATTGGTC CTCGAG	266

(2) INFORMATION FOR SEQ ID NO:1000:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1000:

GTAATGGGAG ATGGACATCC ACTGTTTCAT AAGAAGAAGG GGAACAGAAA GAAGCTAGTA	60
GAGCTGGAGG TGGAGTGCAT GGAAGAGCCT AATCACCTTG ATGTGGACCT GGAGACCCGG	120
ATCCCTGTCA TCAATAAGGT GGATGGTACT TTGCTGGTGG GTGAGGATGC CCCTGCGCGG	180
GCTGAACTGG AGATGTGGTT ACAGGGTCAT CCAGAGTTTG CTGTTGATCC CCGATTCTA	240
GCGTATATGG AGGATCGCAG AAAACAGAAG TGGCAAAGAT GTAAAAAAA TAATAAGGCA	300
GGACTCGAG	309

(2) INFORMATION FOR SEQ ID NO:1001:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1001:

```

CACGTCAGGA GAATAGAATG GAAAATTTT ATTTCACAG AAAGAAGTTA ATTTAGAAAA    60
TTAGTTTAAA ATACATTTGA AAACCTAAAG AGCAAAAAGC ATTTGTAAAC AAACAAAAAA    120
TAAACCAAAA AAACCTGAT GAGGTACTA CTAATAGTAA CTGTAGGAGG CATCTACCTC    180
CCTAGATTGG GGAAAGAAGT AGTGGTTGAA TTATCAGAAC CTAGAAGCAC AGAACAGGGG    240
CCCCTCAGAA TGTGTTCTCA GACTCCTGAG GGAAGGATGC TACCCAGCTA CAGCTGGTTC    300
CTCGAG                                     306

```

(2) INFORMATION FOR SEQ ID NO:1002:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 541 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1002:

```

GAATTCGGCC TTCATGGCCT ACACCTGCT AATTTTGTG TTTTTTTTG TAAAGGCTGG    60
GTCTCACTAT GTTGCCAGG CAGGGTCTCG CTATGTTGCC CAAGTGGGTC TCGAACTCCT    120
GGGTTCAAAG AATCCTGCCT CGGCCTCCCA AAGGGCTGGG ATTACATGCA TGAGCCATCA    180
CATCTGGCCC CCACCCATCT TAAAAGTCAG AAATAAAGC CAGAGCCCCT CCTTGACCTC    240
CTGGCCCCCT CCGCTTTATC ACCCCACCTC TCTGCCTGTC TTTATTGCAA AACCCCCAGA    300
AGGTTATCAG GCTCATGTC TTCCCTCCTG TCCACACTGC CCCAACTACA CAATGAGATG    360
CCCCCATTC AACTCCCCAG CCTCCTCTGC TGGCGTCTCC TCCTTCCTAA TCTCTGAACA    420
TTGTCCCATC CAAGGGCTCA GTCCAGGTC CGTTCACCCC TTGTCCACAC TCACCCCTGAG    480
AGCTTCCAGT CTGTGGCCTC CATGCCCTGG AATGAGCCCC TGTAAGATCC ACAATCTCGA    540
G                                           541

```

(2) INFORMATION FOR SEQ ID NO:1003:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 602 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1003:

```

GAAACGCCTC CTGATTTTGT CTTACAATGG AACTTAAAAA GTCGCCTGAC GGTGGATGGG    60
GCTGGGTGAT TGTGTTTGTC TCCTTCCTTA CTCAGTTTTT GTGTTACGGA TCCCCACTAG    120
CTGTTGGAGT CCTGTACATA GAATGGCTGG ATGCCCTTGG TGAAGGAAAA GGAAAAACAG    180
CCTGGGTTGG ATCCCTGGCA AGTGGAGTTG GCTTGCTTGC AAGTCCTGTC TGACGTCTCT    240
GTGTCTCATC TTTTGAGCA AGACCTGTCA CAATCTTCAG TGGCTTCATG GTGGCTGGAG    300

```

```

GCCTGATGTT GAGCAGTTTT GCTCCCAATA TCTACTTTCT GTTTTTTTCC TATGGCATIG      360
TTGTAGGTCT TGGATGTGGT TTATTATACA CTGCAACAGT GACCATTACG TGCCAGTATT      420
TTGACGATCG CCGAGGCCTA GCGCTTGGCC TGATTTC AAC AGGTTCAAGC GTTGGCCTTT      480
TCATATATGC TGCTCTGCAG AGGATGCTGG TTGAGTTCTA TGGACTGGAT GGATGCTTGC      540
TGATTGTGGG TGCTTTAGCT TTAAATATAT TAGCCTGTGG CAGTCTGATG CGACCCCTCG      600
AG                                                                           602

```

(2) INFORMATION FOR SEQ ID NO:1004:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1004:

```

GCGGCAATGA TACCCACTGC CAACCAACAA AAATTGGCTG CAACCATCCC CTACCAGGAC      60
CGAGCCCCTA CAGGTGAGCG GCTCTGCCAG GCCCTGGCTC CTGCCCCGAT GCACCCAAGC      120
CGAGCCTGG GGCAGCTCCT ACGAGGCTCA CCAGGGCCCC AGCAGGATGC CTGGGTCCCC      180
TGCTCCTGCT TGGCCAAAGG GAAGAGGAAG CAGCAGGCAG GGGCTGGGGA GGCCTTCATG      240
AATTACATGA ATTATCCTTC TTTTTTTTTT TTTCCCTTT TTTTTTTTTT TTTTTTTTTT      300
TTTTTTTTTT TTTTTTTTTT TGAGANNCCA NTTNAAAAAA AAAAGGGGGG GGTGTCAGGG      360
TTTCATTGAG AGCTCGAG                                                     378

```

(2) INFORMATION FOR SEQ ID NO:1005:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1005:

```

GAATTCGGCC TTCATGGCCT ACTGTTTTAT TTCCCGCTTT TATTTTGCTT TTGAAATCTT      60
TTTCCTTGGT GGATTGTAC GTGTCTTAC TAGATGCCTC AAATTAAGTC TGACCACAAT      120
CCTACTCTAC TTTCTACAGT GGAGAGACCA TCCTCCCTGC CCCAGGGCTG TCTCCACCCA      180
CCCCCCTTC CCCACCGCA CCCTCGAG                                         208

```

(2) INFORMATION FOR SEQ ID NO:1006:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1006:

```

CTGATCTGTG AACCTTACAC GAGCAAGGAA TTATCCGGG TTTGGATAC ACCCTACTTA      60
CTAAATGAAG ACTGGGAATA CTATCTCTCT GGGGAAGCTAT TTAATAAATC AAAAAATGAAG      120
CTCACTTTTG AACAAAGTTA CAGTGACTGC AAAAAAATA GAGGCACTTA CGGCACTCTT      180

```

CACCTGCAGA ACAGCTTCAA TATCAGTGAA CATCTCAACA TTAATGAGCA TACTGGAAGC	240
ATAAGCAGTG AATTGGAAAG TCTGAAGGTA AATCTTAATA TCTTTCTGTT GGGTGCAGCA	300
GGAAGAAAAA ACCTTCAGGA TTTTGCTGCT TGTGGAATAG ACAGAATGAA TTATGACAGC	360
TACTTGGCTC AGACTGGTAA ATCCCCCGCT CTCGAG	396

(2) INFORMATION FOR SEQ ID NO:1007:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1007:

GAATTCGGCC TTCATGGCCT AGATGGGGGC TAGTTTTTGT CATGTGAGAA GAAGCAGGCC	60
GGATGTCAGA GGGGTGCCTT GGGTAACCTC TGGGACTCAG AAGTGAAAGG GGGCTATTCC	120
TAGTTTTATT GCTATAGCCA TTATGATTAT TAATGATGAG TATTGATTGG TAGTATTGGT	180
TATGGTTTAT TGTCCGAGA GTATATTGTT GAAGAGGATA GCTATTAGAA GGATTATGGA	240
TGCGGTTGCT TCGGTGAGGA AATACTTGAT GGCAGCTTCT GTAGCTCGAG	290

(2) INFORMATION FOR SEQ ID NO:1008:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1008:

GTGGTTCTGA AATCACCCTT CCTTTTCACT CCTCTGCCCT GACTTCCTCT CTCACCATGC	60
TCTCTGCTC TCCACCTTCA CCCTCTTCAG TGGGATTTCT GCATTTTCAGC CAGAGGGACC	120
TGTCTGCAGC TACCAGATGC TCCCCACCCT GGGAGAGCTC AGCGGCATGT CTGCACATGG	180
GCCTTTTCAG CCTTCTTCAT CCCGCAATTG GAACTGACTT TCCCACTCCC ATCTCACACT	240
TGAGAATCTC TGTTTCTTGT TTCTTGTTTT TTATTTTATT TTTATTTTTT CTCCCCCTG	300
GCGGACTCGA G	311

(2) INFORMATION FOR SEQ ID NO:1009:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1009:

GGANCAGAGT CCAANAGATN AATTATATTC AGAAAACTCT GTTCAAGATA GGGTATGATT	60
ACAAATTGGA ACAGATCAAA AAGGGATATG ATGCACCTCT TTGCAATCTG TTAGTGTTTA	120
AAAAGGTCAA GGCCCTGCTG GGAGGGAATG TCCGCATGAT GCTGTCTGGA GGGGCCCCGC	180
TATCTCCTCA GACACACCGA TTCATGAATG TCTGCTTCTG CTGCCCAATT GGCCAGGGTT	240
ATGGACTGAC AGAATCATGT GGTGCTGGGA CAGTTACTGA AGTAACTGAC TATACTACTG	300

GCAGAGTTGG AGCACCTCTT ATTTGCTGTG AAATTAAGCT AAAAGACTGG CAAGAAGGCG 360
GTTNTACAAT TAATGACAAG CCAAACCTGA G 391

(2) INFORMATION FOR SEQ ID NO:1010:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1010:

GGGGAAGAAA GGCCTAAGGA TGGTGAAGCT GAACAGTAAC CCCAGCGAGA AGGGAACCAA 60
GCCGCCTTCA GTTGAGGATG GCTTCCAGAC CTTCCCTCTC ATCACTCCCT TGGAGGTTAA 120
TCACTTACAG CTGCCTGCTC CAGAAAAGGT GATTGTGAAG ACAAGAACGG AATATCAGCC 180
GGAACAGAAG AACAAAGGGA AGTTCCGGGT GCCGAAATC GCTGAATTTA CCGTCACCAT 240
CCTTGTCAGC CTGGCCCTAG CTTTCCCTTC GTGCATCGTG TTCCTGGTGG TTTACAAAGC 300
CTTCACCTAT GATCACAGCT GCCCAGAGGG ATTCGTCTAT AAGCACAAAC GCTGTATCCC 360
AGCCTCCCTG GATGCTTACT ACTCCTCCCA GGACCCCAAT CCCAGAAGCC TCGAG 415

(2) INFORMATION FOR SEQ ID NO:1011:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 407 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1011:

GCCAGACTAC CACAAGCCCC ACCCACAATA TGCCAAGCCC TACCCATACC ACAGCAAGCC 60
CCACTCATACT TTCCACAAGC CCCACCCATA CCCCCACAAG TCCCACCCAC AAAACCCAGTA 120
TGTCACCTCC CACCACTACA AGTCCTACCC CCAGTGGTAT GGGCCTAGTC CAGACTGCCA 180
CAAGTCCCAC CCATCCTACC ACAAGCCCCA CCCATCCAC CACAAGCCCC ATCCTTATAA 240
ATGTAAGCCC TTCCACTTCT CTAGAACTTG CTACCCCTCTC CAGCCCTCC AAACACTCAG 300
ACCCACCCCT CCCAGGCACT GACTCCCTTC CCTGTAGTCC CCCAGTCTCC AATTCTTACA 360
CTCAGGCAGA CCCTATGGCC CCCAGAACTC CCCACCCAAG TCTCGAG 407

(2) INFORMATION FOR SEQ ID NO:1012:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1012:

GAATTCGGCC TTCATGGCCT ACGCCGCCGC CACAATGGC CGCGGAGTTT GGAATCTGA 60
CGCGGATGCG GCATGTGATC AGCTACAGCT TGTACCGTT CGAGCAGCGC GCCTATCCGC 120
ACGTCTTCAC TAAAGGAATC CCAATGTTT TCGCCGCAT TCGGGAGTCT TTCTTTCGCG 180
TGGTGCCGCA GTTTGTAGTG TTTTATCTTA TCTACACATG GGGGACTGAA GAGTTCGAGA 240

GATCCAAGAG GAAGAATCCC GCTGACCATT GAATTCTAGA CCTGCCTCGA G

291

(2) INFORMATION FOR SEQ ID NO:1013:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1013:

GAATTCGGCT TCATGGCCTA TGGATTACCT GAGGAAGAAG AGATCAAGGA AAAAAACCC	60
ACCAAGTCAAG GAAAGTCAAG TAGCAAGAAG GAAATGTCTA AAAGAGATGG CAAGGAGAAA	120
AAAGACAGAG GAGTGACGAG GTTTCAGGAA AATGCCAGTG AAGGGAAGGC CCCTGCAGAA	180
GACGTCTTTA AGAAGCCCCCT GCCTCCTACT GTGAAGAAGG AAGAGAGTCC CCCTCCACCT	240
AAAGTGTAA ACCCACTGAT CGGCCTCTTG GGTGAATATG GAGGAGACAG TGAATATGAG	300
GAGGAAGAAG AGGAGGAACA GACCCCTCCC CCACAGCCCC GGCAAGCTCGA G	351

(2) INFORMATION FOR SEQ ID NO:1014:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 596 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1014:

GCTCGAGTCG GATCCTCCCT GAATGTGGAG CGATGGGGGG TTGCACACAG GCCGTTCTGC	60
CCCAGCAGCT AACAAGAAAG ACCCTTGCAT TCCTCCCTGC ATCTCTCCCT TTTGGGTCTT	120
ACTAATGTCT GTTGAATTTT TCTTTTTC AAAGCAAAAT CCTTCTCTGC ATTTTGTCTG	180
CTGTCTGTT TCCAGAGCC GCAGGACTCT CTCCTTGTCT GGAGTTCCAG AGAGCCCCCA	240
CTTTCTCTT CTAAGCTGTG TTGTGTGTTT CCTGGTACAT TCTAGGTTCC CCAAGATAA	300
ACATGACTAA GGATTGAAA GGAGGAAAG CCGCGCAGAT TGTTAATCTG AAAGTCAATC	360
CCCGGATTTA GCTCTCAAAA ATGCTTTATT TTTGGAGAAA AGCAATAGAG TAAGACAGAA	420
GGACTTAACG CTTGCAGGGA AGTGGCTTTC TGCCATGTAG AGCCAGGCTG GCAACCTGCC	480
CTCTGCCATC AGGGAGTGAG CATGAACCTG GAAACCTCTA GGACGCAAGA GCGAGGCTGG	540
CTGTCCCTC GTGTGAGTG CTTAGACCTT CTGCCACAC ATCCCATCCC CTCGAG	596

(2) INFORMATION FOR SEQ ID NO:1015:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1015:

GAATTCGGCC TTCATGGCCT ACTTGGTTTT GCTGACCAAC AAATATGCAT AGTGTCTATT	60
CACAGTTATA CAGTAATAGG TTAGAACAGA AATAAATGCC AGCTTCTTAT GATGCCTTTG	120
CCAACAATCA GGCCATGTGT TTCAGGACCC TTCCTTCCTC TGACTTGTGT AGCATTACAC	180

CTCAGCACAC GACTTCTTGA AAGAGTGAAC CTCCAGGGCT TGCTCTCTCA GATGCACCTG	240
GGCAGCAGCA GGAAGTGTCT GACAGTCTCT CCTGTCTCCA TAAAGTAGCG CGCTGGCTCT	300
TTGCTGGGAG TGATGGGAGC CACAGATACG TGCATGGAAG TTACTGCCTC GAG	353

(2) INFORMATION FOR SEQ ID NO:1016:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1016:

GAATTCGGCC TTCATGGCCT AATTATTAAG TAAAATAAGG GTTCCTTGAA TATAGGCACT	60
GCAAATACCA TGACAGTGAT CTGATCACTG AGCTAACTAC TGAGTGACTC AGAGGCAGGT	120
GATGTATACT GTGTGGAGTG GAATGGTGAG AGATTTTCATC ACACTACTCA GAATTGCATG	180
AAACTTAAAG CTTATAAATT GTTTAATTCT GGAATTTTTC ACTTAATATT TTCTGACTGA	240
GATTGCCCCAC GGGTAACTGA AACTGTGGAA AGCGAAACTG CAGATAATGG CGGACTCGAG	300

(2) INFORMATION FOR SEQ ID NO:1017:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 491 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1017:

GCGATTGAAT TCTAGACCTG CTCGATCTCA TGGGGCAGAT GAAATTCTCT TCCTTAGAGG	60
AAAGGGAAAG GTGAGGCCCC AGAGGACTTA TCTCAGCTGT ACATGCTCTG CCTGTGGAGA	120
CATGGCTTTT CTTTGTGCTG TGGCAGACTG GGGCTTTTGA AGTGGTGTAT GTTTAACTTA	180
CCTGAGAGTG AGAGATGTGT AGGAAGAATA GCTGGAAGAA AGTGAAAGAT GAGTGCCAGT	240
ACTTTTGGCC TGTATCCAG TAGAGAGAAA GTGACAGTGA AAGTAACGTG AGAGAGAAAG	300
AGTGTGTGTG TATATGTGAG AGAGAGAAAG AAAGAGAAAG GAATGCTTGA TTGCTTGTG	360
TTCACTGGGC CAGCTCTGAA ATCCAAAATC ATGCCCTTGAT AACATTACAA AACCGTGATC	420
CTGGGTTTGA GTGAATCCTA GAGACATTGT TCTTATGGCC GCCTGGTTTC CGCAGCATGA	480
TCACCCTCGA G	491

(2) INFORMATION FOR SEQ ID NO:1018:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1018:

GCTTTTCCAT GAAAGGTGGA TCGAGATCTA CTGCCAGTGG GTCAACAGGT TCTAAATTGA	60
AATCAGATGA GTTACAGACC ATCAAGAAAG AATTAACCCA GATCAAACT AAAATTGACT	120
CCTTGCTAGG GCGCCTGGAG AAGATTGAGA AACAGCAGAA GCGGAGGCA GAAGCTCAGA	180

AGAAGCAATT GGAAGAGAGT CTAGTGCTGA TCCAAGAGGA ATGTGTGTCA GAGATTGCAG 240
 ATCACTCTAC AGAGGAGCCT GCTGAAGGAG GGCCAGATGC CGATGGAGAA GAGATGACAG 300
 ATGGGATAGA GATTGGACTC GAG 323

(2) INFORMATION FOR SEQ ID NO:1019:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1019:

GGTCACAATC TCCTTGCACT CCAGGACTGG GCATACTCAT ATGCCTTCTG TGGTTGGCGT 60
 CCTTGATTTT ACCCAGTTTT GGTTCGGTT TCCTCTTTCA CACTTCCTGT CATTGGCTTA 120
 TACCCCTACC TGTGTCATTG GCCTTAACAA GGAATAAAG ATGCCGAAAG TTCAGTATAA 180
 ATCGAAGTGT AAACCATCCA CATTTCATA TCCTGCCCCCT CTGGAAGTAC CAAAAGAAAA 240
 AGAAAAGGAA AAGGTTTCTA CTGCTGTATT ATCTATAACT GCCAAGGCTA AAAAGAAGGA 300
 AAAAGAAAAG GAACTCGAG 319

(2) INFORMATION FOR SEQ ID NO:1020:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1020:

GCGGGCATGG TGTGTAGCCT ATGGGTGCTG CTCCTGGTGT CTTCACTTCT GGCTCTGGAA 60
 GAGGTATTGC TGGACACCAC CGGAGAGACA TCTGAGATTG GCTGGCTCAC CTACCCACCA 120
 GGGGGGTGGG ACGAGGTGAG TGTTCCTGGAC GACCAGCGAC GCCTGACTCG GACCTTTGAG 180
 GCATGTCATG TGGCAGGGGC CCCTCCAGGC ACCGGGCAGG ACAATTGGTT GCAGACACAC 240
 TTTGTGGAGC GCGCGGGGC CCAGAGGGCG CACATTCGAC TCCACTTCTC TGTGCGGGCA 300
 TGCTCCAGCC TGGGTGTGAG CGGCGGCACC TGCCGGGAGA CCTTCACCCT TTAATACCGT 360
 CAGGCTGAGG AGCCCGACAG CCCTGACAGC GTTTCCTCCT GGCACCTCAA ACGCTGGACC 420
 AAGGTGGACA CAATTGCAGC AAGACTCGAG 450

(2) INFORMATION FOR SEQ ID NO:1021:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1021:

GAATTCGGCC TTCATGGCCT ACTAGACCTG CTTTTTGGAA GAGAATGCTT TTCACCTGTT 60
 CTTTTTTTAA TCCACCTGGC ACTTTCCTCA GGACCCAAAC TTGTTCACTC TGCTGCTTCT 120
 TGATGTATCA ATTTTGGGAC ATCACCTGTT GTCTCCTTGC TGTGAATGAT GAGGATTGCT 180

CCCATATTAC CCCCCTTCCT TCCCCGGTCA TTCTCTCGGT TGCCTTTGTC ACTTTAAATC 240
ATTTACATAA ACCACAACCT CTCGAG 266

(2) INFORMATION FOR SEQ ID NO:1022:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1022:

GAATTCGGCC TTCATGCCTA AGAAACTTAT TCGTCTTCAG CATGAGAATA AGATGTTAAA 60
GCTTAACCAA GAAGGTTCCG ACAATGAAAA AATAGCCTTA TTGCAGAGCC TTCTAGATGA 120
TGCAAATCTA CGCAAGAATG AACTGGAGAC AGAGAATAGG CTGGTGAATC AAAGACTTCT 180
GGAAGTACAG TCACAAGTTG AAGAATTACA AAAATCTTTA CAGGATCAAG GCTCAAAAGC 240
AGAAGATGCT ATTTGAGTGG TTCTAAAAAA GAAGCTTGAA GAACATCTAG AGAAGCTGCA 300
TGAGGCCAAT AATGAACCTAC AGAAGAAGAG AGCCATTATT GAAGATCTCG AG 352

(2) INFORMATION FOR SEQ ID NO:1023:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1023:

GAATTCGGCC TTCATGGCCT ACAAAGCCA CCAGGTGAAT AAATGCCATT TTCTTTTTCG 60
CTAGACATTG TTCATTTACT GAAAATGAAC AAGTAATGC TCAGCATACA AAAAAAATT 120
AAAGTTCTCA AGATCCCATG CTTTCTGGAT TCCTCTGTAT TTATCACTCA AGTCATCCCC 180
CTTTTGTAA TCTCGCTTTT TGTCTCGCT TTATTAAAT CCTTATATC ACTACCCCA 240
TCTCTCGAG 249

(2) INFORMATION FOR SEQ ID NO:1024:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1024:

GAATTCGGCC TTCATGGCCT ACAGGAAATA GGCAAAAATA CCCAGGAAAA GGAAACAGTT 60
TTATGCATTA GTGCTGTACC TTCTTCATAT TGTCAAAAAT AAAAGATAGT AGAGATTTAT 120
TGAAAACATT TTAATAAAG AAGTTGTGTT CATAATATAA AGCTGCCTTA AACTATATAT 180
GAAAAAAACT GTAAATCATA GAAAATAACT TTATCAAGA TGTAAATAA TACATTTTAC 240
AGAATAATTT CCCATGGGCT TCTCGAG 267

(2) INFORMATION FOR SEQ ID NO:1025:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1025:

```

GAATTCGGCC TTCATGGCCT AGCCATCTTA TTGAACTAT ATTTTCCTT CAAAGAAGCA      60
ATAGGTCTCA ACATAGTGTA GGTAGCATCA GGTGACAGAA AGCCAATTTT ATTTTCAAAT      120
TTAAGTTAAT TATCTTCGTG ATCCTATTTA TCCACAATT CTTCAGAAA AGACTGAAAA      180
AACACATTAT ATTCAGGAGA TATAATGAAA TTATTGGAAG GCATCACTCG AG              232

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(2) INFORMATION FOR SEQ ID NO:1026:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 153 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1026:

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GAATTCGGCC TTCATGGCCT AGATTGAATT AGACCTGCCT CGAGCCCCTA AAAATATCCT      60
AAATGCATTT CCTCCTCTGC ATTCTAACTA CTGCTGCCCT TGTCTAGGA. CTCCACTCTC      120
CCACATCAAC CAACTTTTCT CCTTGGCCCC CTC              153

```

(2) INFORMATION FOR SEQ ID NO:1027:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1027:

```

GCGAGGGCCA GGGAGGGAGG AAGCAATAAA TAGGGGGAGA AAATGGCAAT AAGACGTTAT      60
ATAGCCCTTC TAACAAAAAT ACCAGAAGGG AGGGGTGAGG GACAAGGCTG TCTGAGGGAG      120
GGCAGGAGGT GAGGCCATGG CTTGGTCTCT TTTGCGCTTG GATGGCCGTC AGCTCAGCAT      180
GAGGCATCTG AAAGAACTAC CCAGATTGCA GAAGAGAGAG GTCCCAGCCT CCTTGAAGG      240
ACATGATGGG GGAGGAGTGG AGACAACAGC TGAGTGTTAC CTGTAAAACT CGAG              294

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(2) INFORMATION FOR SEQ ID NO:1028:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1028:

GAATTCGGCC	TTCATGGCCT	ACACACATAC	CCAACACACA	CACAGACACA	CACATACACA	60
GAATCAACAC	TCAACACGCA	AACACCCAAC	ACACACATGC	ACACACACTT	TCTGAAGATG	120
AGTTTTCTCA	TTTATGAAAT	GAGCTCATCT	GGAATTGCCA	TGAGGGTCCA	ACAGGTGCCA	180
TGCAATCAGG	TGTGCACTCA	GTATGGGCTG	GGTGGAGATG	GCCATCTCCT	TTCCCCTCCA	240
GGCCTGGTTC	CTGTGTGCTG	GGCCTCTGCT	CTTCCCCCCC	TCGAG		285

(2) INFORMATION FOR SEQ ID NO:1029:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1029:

GACAAGCTGA	GAAAATGAAA	GGAAAAC TAG	AAGAATTGTC	TAATCAGTTA	CATCGCAGTC	60
AAGAGGAGGA	AGGAACACAA	AGAAAGGCCT	TGGAAGCCCA	AAATGAAATA	CATACCAAAG	120
AGAAGGAGAA	GCTGATTGAT	AAGATTCAAG	AAATGCAGGA	GGCCAGTGAC	CAGTTGAAGA	180
AACAATTGTA	AACTGAAAGT	GAAGTCAAGT	GTAACCTCCG	GCAGGAAGCA	TCCCGGCTCA	240
CTTTGGAAAA	CAGGGAAGTC	GAG				263

(2) INFORMATION FOR SEQ ID NO:1030:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1030:

GAATTCGGCC	TTCATGGCCT	ACCTCCTACA	AATTAAATTT	TTTTATGAAA	TTTTTAGGTG	60
ACTTGTAAT	TCTTCATGTA	TGAGGAGTTG	TGTTTATTAA	TGCTACTTTT	TAAATTTTCC	120
TGTGCCATGT	GGCAGATGTT	TATTCTCTTA	ATGCACTTCA	GGTTTGCTAT	CTGTAAAGCC	180
TTTGACCCAG	GCCTACTGAG	TCAAATCTAC	ATTCACTGTA	ACATTAAAGG	CAGAAACCTC	240
GAG						243

(2) INFORMATION FOR SEQ ID NO:1031:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1031:

AATTCGGCCT	TCATGGCCTA	ATTGAATTCT	AGACCTGCCT	CGAGATTACA	GCCAGAGTCT	60
CCTAACTGCT	CTCCATCTAT	TCTCTAATCC	CAATAGCTAC	TCTCCATGCA	GCTGTCAGAG	120

TGGGCCTTAT AAAACATTGG TCAGGTCATG CCAGGCCTCC GATGGCTCCC ATCACACTCA	180
GGGTAAGAGC CGAAGCCCA TGTGGGTGTC TAAGGCCCG TGTGATCCTT ACCCACTTCT	240
CTCGAG	246

(2) INFORMATION FOR SEQ ID NO:1032:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1032:

GAATTACAC CTGCCTCGAG TACTCCCATG CCACTTTCAG CACAAATATC ACTTATTATG	60
TGCTGCTTGA ATATTATTTT CTTATTCTT AAGTTTGGTC CATTCACTCT CGAG	114

(2) INFORMATION FOR SEQ ID NO:1033:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1033:

GAATTGTTGT TCTTTTCTTT TCCATGATAT CATTATATGG ACAGTTTAGG GTGGTCTCAT	60
GGATTATAAC CATTTGGATA TTGGTTCAC TAACAATTTT CTTACTGGCC AGAGTTCTTG	120
GTGGAGAAGT TGCATATGGC CAAGTCCTTG GAGTTATAGG ATATTCATTA CTTCTCTCA	180
TTGTAATAGC CCCTGTACTT TTGGTGGTTG GATCATTGA AGTGGTGTCT ACACCTATAA	240
AACGTGTTGG TGTGTTTTGG GCTGCCTACA GTGCTGCTTC ATTGTTAGTG GGAGATCTCG	300
AG	302

(2) INFORMATION FOR SEQ ID NO:1034:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1034:

GAATTGGGTC TTCATGGCCT ACCTGAGCAC TCTGCATTTT AATTCTGTGT TCTTTCCCTT	60
TATCTATGTG TTGTCTCTGA GGAAATGTCC TTAAATGTCT TCCTCAGGCT TGATACCTAA	120
TTTGAGATGG TTCAAACAAT TTTTCCCTTT TCCCTTCACT GGAAGCTTTG TTACTCATTG	180
TGTTTGCTTT CATACTTTCA AATGCTGTCT TTTTATTTT GGTGGTATTT TTTTCTCTT	240
TCTCAGGTGT AACATACCTC GG	262

(2) INFORMATION FOR SEQ ID NO:1035:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1035:

```
GAATTCGGCC TTCATGGCCT ACCTACTAGG CATGTTTAT GACACAGATG ATGCGAGTTT      60
CAAGTGGTTT GATAATTCAA ATATGACATT TGATAAGTGG ACAGACCAAG ATGATGATGA      120
GGATTAGTT GACACCTGTG CTTTCTGCA CATCAAGACA GGTGAATGGA AAAAAGGAAA      180
TTGTGAAGTT TCTTCTGTGG AAGGAACACT ATGCAAAACA GCTATCCCAT ACAAAGGAA      240
ATATTTATCA GATAACCACA TTTTAATATC AGCATTGGTG ATTGCTAGCA CGGTAATTTT      300
GACAGTTTGG GGAGCAATCA TTGGTTCCT GTACAAAAAA CATTCTGATT CTCGTTTCAC      360
CACAGTTTTT TCAACCGCAA CCCTCGAG                                         388
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(2) INFORMATION FOR SEQ ID NO:1036:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 258 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1036:

```
GAATTCGGCC TTCATGGCCT ACTTTTGTAGT AAAGAGCAAA CTCATAAATT TTGGCATCAG      60
AGTTTGAGCT TTATTTTCT TAAATGAGTT TGAAATCAAT TTAATATTTT TCTCCAATTC      120
CCTAATGTCT CAGAAGTGAA TTTACAGTAT ACCTTTGTTT TTTCGTATTC TTAAGTAGTA      180
TTTGGAATTT ATTTAGTAGT TGCAGTACTA AATAAGGAGT GGGGAGTTAA TTACAAAACG      240
AATCAGGTGA CTCTCGAG                                         258
```

(2) INFORMATION FOR SEQ ID NO:1037:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1037:

```
GCGATTGAAT TCTAGACCTG CCTCGAGTGA TTGGCCTGC ATGGTTTCC TCCTACCCCT      60
TTTTCTTTGC CTGGTCAGC TCGAG                                         85
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(2) INFORMATION FOR SEQ ID NO:1038:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1038:

GCGATTGAAT TCTAGACCTG CCTCGAGGGG TTTGGAGCTC TGTGGGGTGG TGACCTCAGT	60
CCTGTTTACC CCTGCAGAAG AAGGACCCAG CCCAGTTCCT GCAGGTACAT GGCCGAGCTT	120
GCAAGGTGCA CCTGGATTCT GCAGTCGCCC TGGCCGCTGA GAGCCCTGTT AATATGATGC	180
CCTGGCAGGG GGACACCAAC AACATGATTG ACCGATTCTGA TGTCCGTGCT TAGGCCATGA	240
AGGTCGAG	248

(2) INFORMATION FOR SEQ ID NO:1039:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1039:

GAATTCGGCC TTCATGGCCT AGTCACTTAA ATAGATTGG TGTGAAATTT TATGATAAAA	60
GGTGACTTTT GTTCTAGTAA GTATTCTCAA AGAAAAGAGA GTGAGTAGCT ATTTTGGGAT	120
GAAGATAGTT ATAACGTAGA TAGCGTTTT TGTTTTTGTT TTTTGTTTT GGCCAGGCG	180
GAGTGCTGTG GTGCGGTCAT GGCTCACTGT AACCTCAGCC TGGGGTCAAG GTCTGCCCAT	240
CTCAACCCTC GAG	253

(2) INFORMATION FOR SEQ ID NO:1040:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1040:

GAATTCGGCC TTCATGGCCT AGTTCAAAAA TAAAGCAAAT ATTTATTTTG GTATTGTTTT	60
GAGCACAGCT GATTTTAAAC ATTTTCTTTC ATAACACTCA GAAATCATTA ACAATTGTTT	120
GCTCATTGG TATGGGTTTT TTGTTCTCTT TTTTTTTTTG GGTCTTTTA GGTGCTTTCT	180
TTTAACATTG GTCATGTTTC ACCCTTTTTT TTTTCATCCC CCCAGTCTCG AG	232

(2) INFORMATION FOR SEQ ID NO:1041:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1041:

GAATTCGGCC TTCATGGCCT ACAAGGACGT TAAAGGCATT TTATTCCAGC GTCTTCTAGA	60
GAGCTTAGTG TATACAGATG AGGGTGTCCT CTGCTGCTTT CCTTCGGAAT CCACTGCTTC	120
CACAGAGATT AGCCTGTAGC TTATATTTGA CATTCCTCAC TGTCTGTTGT TTACCTACCG	180

TAGCTTTTTA CCGTTCACTT CCCCTTCCAA CTATGTCCAG ATGTGCAGGC TCCTCCTCTC 240
TGGACTTTCT CCAAAGGCAC TGGACCCTCG AG 272

(2) INFORMATION FOR SEQ ID NO:1042:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1042:

GAATTCGGCC TTCAGGGCCT AGATTAAATC TCAAGGTGGA CTAGGAGAGA ACAAGCAGAC 60
TTCTATAGAA CAGTGTCTTC CTTTGGTGTT GTTTACGATC AAGAAAAGAA AACCTTTGAC 120
TGGACACAGT TCCGCATCAT TTCCCGTTTG GACAAGAAGT CCGATGAGAG CCTGGAACAG 180
TATTTTATA GTTTTGTGGC CATGTGCCGG AATGTCTGTC GTCTACCCAC ATGGAAGAT 240
GGCGGTCCCC CAGATACCAC CATCTACGTT GAACCCATTA CTCGAG 286

(2) INFORMATION FOR SEQ ID NO:1043:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 230 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1043:

GAATTCGGCC TTCATGGCCT AGTGTAACTCT TATTGGGAAC CTAAACTGC TCTTAAAGTC 60
TTTTTGAAAA CTCAGACATA TTTTGGCAT TACCTTTTTT TTATTGGAAA GGAAAAATGA 120
AAACCTTTCA TTTTATTAAT AATTCTATAT TCCACTCCTG TATTTCTCTC TCTTGGATGA 180
TGATGGTGAT ATTATTCTC ACTTTTCAA ATAATACCCT GGGACTCGAG 230

(2) INFORMATION FOR SEQ ID NO:1044:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 238 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1044:

GATTCGGCCT TCATGGCCTA GGGAAAATAA AAATGTATTC AGTAGCACGT GGGTTATGGT 60
TTCTCATAGA CCAGGGGATA AGATTAAAAG TCACTGAAGA GTGGGAAAT GCATGTTGAG 120
AAGATGAGAA TGGCCTGTAT TTTCTCAGG GGAATCTGTG TAATGTGCCT TTTCCTCTC 180
CAATGCCTA GAACCATGGC ACTGTGTCTT ATTTATTTAA CCGTTGGGCC GTCTCGAG 238

(2) INFORMATION FOR SEQ ID NO:1045:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1045:

TAATTCATCT AAGTTGTGA ATTAGCATAA AGTTTTTAAT AAAATTTTAT GTAATTCCTT	60
TTTAGAGAAC TAACTTTTGA AATTGCTGAT TTTCTGTTT CCGTTTCAAC ATTTTACACA	120
CTGGTAGTTA ATAGTTTTTT CTCTCCAGCT TACTTCGTGT TTGATTTACT TTTCCCTTTC	180
TGTCTTCTTG AGGTGGAAGC TTAGAGGATT AATGATTCCA TTTCTTTCTA ACGAAATCAC	240
TTAAACTAT AAATTTCACT CCAACTACTT CTTTAGCTAA ATTCCATAAA TTCTACTATG	300
TTGTGTTTCC CTTTTTCACT CCGTCTCCTC GAG	333

(2) INFORMATION FOR SEQ ID NO:1046:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 429 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1046:

GAATTC TAGA CCTGCCATTG TGGGGAGTGG AAGTGGCATG ACCTCAGGAG CCAATTCTGA	60
GTCCAGGTGA ACCAAAGCTC AGTTTCTTTC ATCTTTGAAC CTGAACCTCT TACCTCCAAG	120
AAAAAGGGCC CAGGAATTTG GGCCTTCTTG TTTATTGTG CTTCTGCCCC TCTCCCTATC	180
TAACCCCTGG GTAAGGGTGA GCTTGAAGGT GATGGTGACA GTGGCTTCTG TGTGTGTCAG	240
TCCACCCTCC AAGCAATGCT TAGAAACCAG TCCATAAGCC AATTAACACA TCATTTTATG	300
GGCAGATTG CAAGTTCTCA GTTGTTTACA TGTTTCGTGA AGTACTAACC TCCAAATTAA	360
TAAAGCATGA CACATGACAT CACACATTTC ACAATTGTGA CCCAAGCAAA GTTCATGGAG	420
GTACTCGAG	429

(2) INFORMATION FOR SEQ ID NO:1047:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 65 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1047:

GCTTGGTAGA CCACATCCAA GGGACGATGA GGTTCCTCCAG AGGAGGAGTG GTCACCATGA	60
TCGAG	65

(2) INFORMATION FOR SEQ ID NO:1048:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 498 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1048:

```

GAATTCGGCC AAAGAGGCCT AAATTTGGTT TAATGTGTCA TCAAACCTTG TATTCAGCTA      60
TCTAGAGCCA TTTTCTGGAT TCATGCAATA CATTTTCCCC AAACCCCTTT TATTTTGAAA      120
AAGCTCAAAC ACAGAAAAGT TGAAAGAATA GCGTAAAGAA CATCTGGATG TGGTGCAGGG      180
TCTCATGTTC ATAATCCCAG CACTTCGGAA GGATTATTTT AGACCAACCT GGGCAACATA      240
GTAAGACCCA ATGTCTACAA AAATGTTTAC GSATAAACCA GCGGTGGTGG TGAGGTAGTC      300
CCAGCTACTC AGGAGGCTGA GGTGGGAGGA TTGCTTGAGC CCAGGAGTTC AAGGCTGTAG      360
TGAGCAATAA TCACATCACT GCATTCCAGC CTTGAGTAAC AGTGAGACCT GTCTCAAAAA      420
AAAAAAAAAA AACACCAAAA ACAACCAACT GTGTATATCT TGCCTGATA ATCCCCCGAA      480
TTCTAGACCT GCCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1049:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 443 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1049:

```

GAATTCGGCC AAAGAGGCCT AAGCTGAGAT GGGTGTTAAA AGTTAAGACA CAGCTTAAGA      60
CAGAAGCATT GTAAAACAGG AACAAATACT GGCTTAAACC TGATGTCTCT AACTATATTC      120
CTCTATTTTA AGAATGTTTT AGTATCTGAT AGTTTCATCA GCCTTTCCAT TTCCAATAT      180
GTGACCTTTA TTCCCACCAT GTCCCAAATA AACGAGTCCT AGGATTTCTT AGAAGGTGGA      240
CCTCAATTAT TGTGTCCCTT TTATATATAA GGCAAACATT GCTTTTAAGT TCTGTTGGAA      300
CATGGGAACT TTTACTAGAA TGCTTAGAAT GTTCAGAAAA AATGTCCCAA AGCTCTCTTC      360
TGGTCCATAC AAGACAATCA GAATGTAACA CAGTAGCAGA GGGTGTGGAA CATACACTAG      420
TCATATTTGA TTCTCTCTGT CAG

```

(2) INFORMATION FOR SEQ ID NO:1050:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1050:

```

GAATTCGGCT AAAGAGGCCT ACTTCTGGCT ATTTTCAAAT ATATAATATG TTATTGTAA      60
CTATACTC

```

(2) INFORMATION FOR SEQ ID NO:1051:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1051:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGGCAA	60
GACTCTGTCT	CCAAAAAATA	AAAAATTAA	AAAAAATA	ATTTTAA	AAATTTANT	120
TAANGTAAAT	TTAAAAATGT	TCAGTGAAAT	GGTAAAAA	AAAAAAGAC	GCACAAAATA	180
CCTTCATGTT	TCTCATCTCT	TTTCCCTTC	AGATTCTGCC	TTCTTCCAA	TTCAGCTCTT	240
CTTTCCAGT	CTTCAACCA	ACCACCACGA	CTCTCGAG			278

(2) INFORMATION FOR SEQ ID NO:1052:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1052:

CTCGAGGACC	AAGGATGAAG	AGCATAAGAA	GATGAAGATT	GTAAACTTGT	ATAAAATTAT	60
CTTGGTGAGA	AGACAAATTC	TAAAGTAGAT	ATTGTAAATC	TTTTACCACT	TGGGGTTGC	120
TTTTTTCCCG	GAATTCATCA	GAACTTTGAA	TTTTTTTTTT	AAATGGGCTG	TTTTTAATGC	180
AGGGGCTTTT	CTTCCCTAGA	AACCAATTC	TAAGCAGAAA	AAGNAAAAAN	ACACCAAAAA	240
TAAAAAACCC	CCCTCGTGCC	GAATTNTNGG	CTTCGGGGGC	CAAATTCGGG	CCTCTTTGGC	300
CGAATTC						307

(2) INFORMATION FOR SEQ ID NO:1053:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1053:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGGCAG	60
TTAAGATCTG	GGTGATTCTT	TAGGGAAACG	GCTGGTTGAG	AGGCTTTGAT	GGAATCCCAT	120
TCTCTGCTGT	GGCCAGAAGG	TGGTGCTAGA	GGCCAGTCCC	ACTTGGATGT	GACCTTGGCC	180
TCTGCCAGGA	TTCAAACCAC	AAAGAACATT	TGGAAGTGGG	ATGTTTGCTT	TGAAGCAGCC	240
TGAAAAACAAG	TGAAAAGGAA	ACCAAGATAA	CTCTCTCTCC	CTCCGCTGGC	AAGGATCAAA	300
AATACCTTGT	GCAGGGAAGC	CCGAGCCTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:1054:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1054:

```

GAATTCGGCC AAAGAGGCCG GAATTCGGCC TCGAAGCCAA GAATTCGGCA CGAGGCCTCG      60
TGCCGCGCCG TTTTTTTTTT TTTTTCAC AGGGGGGCAG TCGGGATTAT AATACACTGT      120
AGCAGTTGGC TGGGGAAAAG TCTATCAAAT TCCATGACCA ATTGGACTTT TCTCCACCT      180
GTAATATAAA TAAATATGT ACTGTTTCAT ACTGAATTTT TTCAATGCAT TGGGGTTCAA      240
CATAAAAGGC ACAAATAAAT AAAAATATCA TTAAATAAAC GGAAATTACA ATTCAAGTT      300
TCATGTGGAG TTGTATCTCA CTGTTGGTT ACTTTTCCA ATTTAATTG ACAGACTTAG      360
TAATAGCACA CAACTGTCCT ACCCTCGAG      389

```

(2) INFORMATION FOR SEQ ID NO:1055:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 213 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1055:

```

GAATTCGGCT AAAGGGTCTA CGAGGTCAGC AAGGACGCC AAGGAGACTC AGTCATGAAA      60
GGTGAAGTGC TCCTGTTTTT CAGTGTGATT GTCTGCTCC AGGTGGTATG CAGCTGCCCC      120
GACAAGTGT ACTGTCAGTC ATCTACAAAT TTGTAGACT GCAGCCAGCA GGGTCTGGCC      180
GAAATCCCTT CCCATCCCC TCCGTCGCTC GAG      213

```

(2) INFORMATION FOR SEQ ID NO:1056:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 173 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1056:

```

GAATTCGGCC TTCATGGCCT AGCGATTCCA GGTTTTAAAT AGTTTGTAAT TTTTCAGTTT      60
CTACACACTT TATCATCCAC TCGTGATTTT TTAATTAAAG CGTTTTAATT CCTTCTCTG      120
TTCAGCTGTT GATGCTGAGA TCCATATTTA GTTTTATAAG CTCCCCCTC GAG      173

```

(2) INFORMATION FOR SEQ ID NO:1057:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 555 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1057:

```

GGTCATACTC TCTCATCCAG ACTGGAGTGC ATGGAGTGCA GTGGACCAT CTCGGCTCAC      60
TGCAACCCCT GCCTCCAGG TTAAAGCAAT TCCCTGCCT CAGCCTCCG AGTAGCTGAG      120
ATTACAGGCA CATGCCACCA TGCCTGGCTA ATTTTGTAT TTTTAGTAGA GACGGGGTTT      180
CACCATGTTG GCCAGGCTGG TCTCGAACTC CTGACCTCAA GTGATCTGCT CACCTCAGCC      240
TCCCAAAGTG CTGGGATCAC AGGTGTGAGC CACTGCACCC GGCCTAGTTT CCATTTTCT      300
GTTGATATTT ACTTCTATTC ACTCATTAAG ACTATATTTT ATTTCTTTAA TATATTTTCC      360

```

```

CTTAGTTCTT TGAACATATT TATAAGAGCT ATTTTAAAGT ATTTGTCAGT TGAATCTAAC      420
ATCTTTTGGG GCCATTTTCT ATTGACTGCT TTTTCTTGA TGATGAGTCG CATTTTCCTT      480
TTTGCCTATC TAGTAATTTT TAAATTATAT ACTGTACCTT GTGGATGTAT GGTAGAGACT      540
CTGGGGTCTC TCCAG                                     555

```

(2) INFORMATION FOR SEQ ID NO:1058:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1058:

```

GAATTCGGCC TTCATGGCCT AGAATGTTAG AAGGTGCCTG CCGAGGCGGG ACAGAGTGTT      60
CGCTCGCGCT GGAGAAGGCT CTGCTCAGCC CTGAGAGTCC CTTCTGCCC CACCGATACT      120
GGCACTTTAA CAAGGAAGCT GACCGCACAG TGTCCAGACG AATTGGCCCC CAGAAGATGG      180
GGAGTTCTGT CCTGCCCTTC TGTGTCTGCG TGACCTCACC CAGCCTAGGA GGGAGGTGCA      240
TTCAGGGTAG ATTTGCCTCT CATTCAAAGT TCTGGGGCTT TGGGTGAAA ACAGCCAGCT      300
TTGGCGCTGC TGGGGAGACT CGAG                                     324

```

(2) INFORMATION FOR SEQ ID NO:1059:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1059:

```

GAATTCGGCC TTCATGGCCT ACTTGATGCT GCAAAGAACA AGATGCGAGT GAAGATCAGC      60
TATCTAATGA TTGCCCTGAC GGTGGTAGGA TGCATCTTCA TGGTTATTGA GGGCAAGAAG      120
GCTGCCCCAA GACACGAGAC TTAAACAAGC TTGAACCTAG AAAAGAAAGC TCCTCTGAAA      180
GAGGAAGCAG CTATGAAGGC CAAAACAGAG CAGCTCGAG                                     219

```

(2) INFORMATION FOR SEQ ID NO:1060:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1060:

```

GAATTCGGGC CTTTCATGGCC TAGTATTTAT AGCCAAGGAA ACAGGGCTAT GAGTTTGATC      60
TGTAGGCAGC AGTAGGGAGG GGGAAATTGA AGCAGGGGGG AGGGCTCTGC AGTAGTTCAG      120
TTGATGCATA CATAAGGCCT GAATTAGGGA ATTAGGAGAG TGATCATAGG TGTGGAAAGG      180
AGGGGAGGGC TTCCAGGCAC ATTTGGTGTA AAATGGATAC AACTTGGTAA CCTGTACATT      240
GCTACCTTTG CACATTTGGT TTCCCTGTC TCAAAGGCTC CCTCTTCTCG AG                                     292

```

(2) INFORMATION FOR SEQ ID NO:1061:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 386 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1061:

```

GAATTCGGCC TTCATGGCCT AAAGAAAACA AACAAACAAA GAGAAAACCC ATGAGCATT      60
TAATTCGTAC TTTTCTACTT TTCTCCCTAC ATTTAGAATA CTGTGGCACT TTCTGTTATC     120
CAAATGTGTC TCAGTCTCCA TATTTAAGGA CTGTGGGTGA AAAGCTTCTA CCTGGAATTG     180
AAGTGCTTTG GACAGGTCCC AAAGTTGTTT CTAAGAAAT TCCAGTAGAG TCCATCGAAG     240
AGGTTTCTAA GATTATTAAG AGAGCTCCAG TAATCTGGGA TAACATTCAT GCTAATGATT     300
ATGATCAGAA GAGACTGTTT CTGGGCCCGT ACAAAGGAAG ATCCACAGAA CTCATCCAC      360
GGTTAAAGG AGTCCTCACT CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1062:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1062:

```

GAATTCGGCC TTCATGGCCT ACATGAAGCT GAATTACTCT CATCTTATAT CTCTCTGCAG      60
TGGCATATCC TGATGGTGAT TTCCTCTTTT TGTGCCTCAG TTCACCCCC TATGGAATGG     120
GGATAAACAC TTGCGGCTGG GCATGGTGGC ATGTGCCTGT AGTCCCAGCA CTTTGGGAGG     180
CTGAAGTGGG AAGATTGCTT GAGGCCAGGA ATTTGAGACC AGCCTGGGCA ACATAGTGAG     240
ACACTCTCTC TACAAAAAAA AAAAAGAAAA AAAAATCAG ATGTGGTTGG TGCATGCTAC     300
TGAGGCGAAA CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1063:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1063:

```

GAATTCGGCC TTCATGGCCT ACTAGACCTG CCAAGCTTTC TTCCTTCATA CTACATATTT      60
CACAAAATTT GCTCGTCAGG TCTGCAAAAA TACCCTCCGG CTGCGGCAGG CAGCAAGACG     120
GCCGTTTGTT GCTATTAATT ATGCTGCCAT TAGGCGAGAA TGTAAGATGC TTTTAAATTC     180
TTAACCTTAT ATGTTGTGCT TCTGACCATT TTCTCTTTTC CTCTCTTTCC TTTTCTTTT     240
GTTTGTGTTG TTGCAATAAA CATAAGTTCT TGTGTACAGC CCACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1064:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1064:

GAATTCGGCC TTCATGGCCT ACAGAGCTGA GAAATAATTC CCTTGTTGTTT TTATAAGTAA	60
GAGTTAAATC CCTCCCATG TAATGTAGCA CCAGATCGAA GTAAACAGAC TATGATTTCA	120
GTGCTAGACA CAGCCTTAAG GCAGAAGAAA TTACACTGTC ATGCAAAGGA TATGTAGCTG	180
CTGCTATTTT GGTGCTTGAA TTCTTCGTTG TCACATAGTT GAAGGCAATC CAGATGAGGA	240
AGAGTGTTAA CCAACAAAAA GAGAAAATTC CCTGCACATG GTCTCGAG	288

(2) INFORMATION FOR SEQ ID NO:1065:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 495 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1065:

GAATTCGGCT TTCATGGCCT ACTGGGAGCT ATCTTGTCTA CCTTGAGGTT CCTGAACAAT	60
GAATTCCTCAT TAATGAGCAG TCTTCAGTAT TAAAACCACT GTCTTGTCAC CTCATTTTGC	120
ATTACTGTCT TCCGTGGATG TTTCAGTTAC AACTGTAATG TTATTTATAG AACAACTTA	180
ATCCATTAAA GCTAACCTAT TTTTCAATAT TTATGATAAT CTATGTACAT ATATTGTCTG	240
TCCATATGTA TTTGTAAATA GGTGTATAT AATGTCAGGT TTGGGTCTTG GGTCAAGTG	300
TATATATTCC TGTAAGTTTC TTAACATGAT TTTGATGAAT TCACATTATG TAACTATAAG	360
AATTGTCCCA AAAGTACCTG TACAGAAAAT TGAATATTGA AAAATTGACA AATTGTGTAC	420
AAACACTAAA AAAAATCTGT TTAAATTGTA TTTGCAATAA ACAACATCAA ATTTTTCAT	480
GAAATCTGCC TCAG	495

(2) INFORMATION FOR SEQ ID NO:1066:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 507 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1066:

GAATTCGGCC TTCATGGCCT AAAGATTATA AAGGAAAGGG GGGTAGTTAA GATTTAGAAT	60
TCAAGTTAAA TTTCAGAAAT TGGGGCAGTC AGGCATTTGT ATCTTTTAGG GCAACAAGTA	120
AAACATGTAG AGTGCTTGCT ATCCCACTTC ATAAAGCTTT TACCCAATCT TATTTCTAAA	180
CCTCTGTGCA TTCTTAGTGT CTTCTCATTG TGAACAGAA AATAAGGAAA AACATTTAAC	240
TTAGTTTTCT AAAATCAGAT AATCCTAAAC AAAAATGTTA GTCAGGGTCA CTAAAAAGTA	300
TTGCACATTT ATATAAATAC AGTCCTTTTA AAATTTGACT TTTAAAAAAC AAAAGACTTT	360
GTACGATATT GTGTTTTTAT TGGGTTTGCA ATATTTTAT AGTAGCCTTT ATGAACCTAG	420
TATAAGTGCA AGTTGTTTGA AAAGGTGTTT TTATTAGTGC ACAATAGAAT TGTGAGGTTT	480
TCAATAGATG TCATGAGATT CCTCGAG	507

(2) INFORMATION FOR SEQ ID NO:1067:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 393 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1067:

```

GAATTCGGCC TTCATGGCCT ACTTATTTT TTCTTTTAAA CAAATAAGCA CACATTCTTT      60
TTAAATAAAG TTTCTCTTCC CCAACCTAAA AGTAGTAATG CTAGAATTG AGCATAGCAG      120
AAAAATATTT AGGAAAATTA AATCCCAAAC AAGAGAGACC ATCTTGGA CTGCTCACTC      180
GGGTGGAAAG TCGACCCAGG TGCCTGTGTG CTTGACAGAG GCGTGGCTGC ATCCGCGTAG      240
CTGACCTTCA GATGGACTGG AGTTAGCACA TTTGTAGTCA TTTTCCAAC CATTCTTTCG      300
TATCTGAGGT ACGTTTTTGA CCTGTTT TAGTGTCACTC GCGATCTTGA AGCACACTCT      360
TTCATTACT TAAATATTTC CTGAGCACTC GAG                                     393

```

(2) INFORMATION FOR SEQ ID NO:1068:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1068:

```

GAATTCGGCC TTCATGGCCT AAGGTAATGT GTCAGTGGAT GGAAAAGTTT AGAAAAGATC      60
TGTGTAGGTT CTGGAGCAAC GTTTCCCGAG TATCTTTCA GTTTTGAAC ATCATGGTGG      120
TTGGAATTAC AGGAGCAGCT GTGGTAATAA CCATCTTAAA GGTGTTTTC CCAGTTTCTG      180
AATACAAAGG AATTCTTCAG TTGATAAAG TGGACGTCAT ACCTGTGACA GCTATCAACT      240
TATATCCAGA TGGTCCAGAG AAAAGAGCTG AAAACCTTGA TACACTCGAG                290

```

(2) INFORMATION FOR SEQ ID NO:1069:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1069:

```

GAATTCGGCC TTCATGGCCT ACTCGACTCA TATTTTATC ATACATTCA AAGTCAGTTG      60
CTGATGTAA TCCCATTTCA ATGTGGGGCA GACTCTCGGG GTAATTTCAA AAAGATGTCT      120
CAACATGTT TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG ATCATGGTGT      180
TGTGGAGACA GGGTCTCACT CTATTGCCCA GGCTGGAGTG CAGTGGTGCC ATCATGGCTC      240
ACTGCAGTCT CGACCTCCCA GACTTAAGCA ATCCTTCCCA AATAGCTGGG ACTCCAGGGG      300
CACCCCACTA CAACTCGAG                                     319

```

(2) INFORMATION FOR SEQ ID NO:1070:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1070:

```

GAATTCGGCC TTCATGGCCT ACTTCTAAAT GGCAAAACAGT TGTCTTGAAG GCACTGTCTT      60
TTTCTACCTA GATGTTGGGT GGAAAAAAGC AAAAAAAGC TGCCTTTTAT ATAGAAGTTC      120
TTGGAATAT TTCTCATATA GTGAGATGAA CAGAATGCAA AAGTTTCTT CCTGCAGGAT      180
CTCCCAAAT CCTTCTTGGC TTGAATTTT CTTCTCACTT TTTCTTTGA AAAGCTTTGT      240
TCCTTTTGCA CCTTGGAAAA ATAAGTCTTG TTTGTCCTGA CAGCAGAGTG CAAGCATCTA      300
TTGCATCAAA ATTCCCAAGT GGAATAGAAA ACCAATGGTC CTTTCTGAA TTTGTTAGC      360
AGTAGCAACA AACATTTTAT TATAACCTCG AG                                     392

```

(2) INFORMATION FOR SEQ ID NO:1071:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 421 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1071:

```

GAATTCGGCC TTCATGGCCT ACACAATGGG AATCCAAGGA GGGTCTGTCC TGTTCGGGCT      60
GCTGCTCGTC CTGGCTGTCT TCTGCCATTC AGGTCATAGC CTGCAGTGCT ACAACTGTCC      120
TAACCCAACT GCTGACTGCA AACAGCCGT CAATTGTTCA TCTGATTTG ATGCCTGTCT      180
CATTACCAAA GCTGGGTTAC AAGTGATATA CAAGTGTGG AAGTTTGAGC ATTGCAATTT      240
CAACGACGTC ACAACCCGCT TGAGGGAAAA TGAGCTAACG TACTACTGCT GCAAGAAGGA      300
CCTGTGTAAC TTTAACGAAC AGCTTGAAAA TGGTGGGACA TCCTTATCAG AGAAAACAGT      360
TCCTCTGCTG GTGACTCCAT TTCTGGCAGC AGCCTGGAGC CTTTATCCCT ATACGCTCGA      420
G                                     421

```

(2) INFORMATION FOR SEQ ID NO:1072:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1072:

```

GAATTCGGCC TTCATGGCCT AATCGGTCAC TGATAGTATG TATTTCTTTA GTAAGAATGT      60
GTTAAAATTA CAATGATCTT TAAAAAGAT GATGCAGTTC TGTATTTATT GTGCTGTGTC      120
TGGTCCTAAG TGGAGCCAAT TAAACAAGTT TCATATGTAT TTTCCAGTG TTGAATCTCA      180
CACACTGTAC TTTGAAAATT TCCTTCCATC CTGAATAACG AATAGAAGAG GCCATATATA      240
TTGCCTCCTT ATCCTTGAGA TTTCACTACC TTTATGTTAA AAGTTGTGTA TAATTGTTAA      300
AATCTGTGAA AGAATAAAAA GTGGATCCCC TCGAG                                     335

```

(2) INFORMATION FOR SEQ ID NO:1073:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1073:

```

GAATTCGGCC TTCATGGCCT AAAAAAATAG GCACAGTTTC AGATGCTTCA GCATATGAGG      60
CATGGATACT TCAATCATTT GCAAAGGTTT CTGCTCAGTA GACTGAATGG AAAAGATGGT      120
CATTGCTCTT TAATGTAATT TTGCAGCTCT CATCAAAGAA AATATCTCCA TGAAATTTAT      180
TGGTAACTGT TTATCTTTGA TCAGTGCAAA CTGAAGTCAA ATATACAAGG TAAACACACA      240
TAAAGATAAG TTCACACATT TCTGTGAATT TTCTAAATGT ACACACTTCT GCAAATTCTC      300
TAAATTCACA AATAACAAAT TTGCATGCAT GCAAGCATAT GTGCACATGT GCACACCTCG      360
AG

```

(2) INFORMATION FOR SEQ ID NO:1074:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 612 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1074:

```

GAATTCGGCC TTCATGGCCT ACCCAGGTGA TCAATGTTTT CAATGCGATC AGTAATAACC      60
ATGTGCTCAT GAATCAGATA GGAAGTGGC AAATAGGTTC CAGCCTTGAT GTTAATAAGT      120
AACTCCAGTA GGTTCCTGGG TGGCATAACA ATGGAAGTGT TCAGAGGGAT CACATAGCAC      180
TTATCCAGGT TAAGATCTAA ATAGGCTGTA AGTTTCTTGT TAAAGTCATG AACAATGTTG      240
GCAGGATCAC TATCTGCAAA CTCTGGGACA GGCACACTGA TAAATTCAAC TTCTCTTCTT      300
CAAAGATTTT AATATTTTCT TCAATTGTCT GGTAGAGAGC AGCTGGGGCA TCTGCAGAGG      360
GCTCATTTAA GATGACATCA TCTTTGATGT ACTTTATPCC ACAGTAGTAC ACGTCATCTG      420
GTTGAAGTGC AAAATATTG TACAAGTATG CTCCTCCTAG AATAACACCT GCAAGCATAA      480
ATGCTAGTCC AAAGCACATG CACCACCACC ACCCGGCTAA TTTTGTACT TTTAGTAGAG      540
ATGAGATTTT ACCCTGTTGG CCAAGATGGT CTTGAACTCC TGACCTCAAG TGATCCGCC      600
ACACCACTCG AG

```

(2) INFORMATION FOR SEQ ID NO:1075:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1075:

```

GAATTCGGCC TTCATGGCCT AAGTTTGTGG TCCTCTGAGA ATTCTCTGAA GGAGGAAATG      60
GGTTGACCTA TTTGTTGCT ATGAAGTAAA AACAATCTTG TTTTCATTTT TTAGTGAACA      120
TCTGGGTTGC ATTTATTATT TCACATTCTG GAGATTCTGT AAAACCACAA TTTGATAATA      180
TGAGGGTTCA TCAAAGCGGT AATTATTGAG CTATTTTAT AGTTGATTCA AGAATTAGGG      240
TGGCGACTCG AG

```

(2) INFORMATION FOR SEQ ID NO:1076:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1076:

```

GAATTCTAGA CCTGCCTCGA GTGTGATACC AGCAGCTATG AAGCAAAC TG TATTAACCAA      60
GTCTTTTATT TTCTGTGTTT TGATGCATGA CTTTCATGGC CTTGTCAACC CTAGAGACCC      120
TGCCCTCCC ATAGCTAGCG AACGTCTCGA G                                     151

```

(2) INFORMATION FOR SEQ ID NO:1077:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 542 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1077:

```

GAATTCGGCC TTCATGGCCT AGGAAGTAGT CTAATAAATT AACAGTTATG GTTTTAATAG      60
GATCTGAAAG ACAATCTTTA AAGAAATGGG AGAAATTGGG GGTATCAGTG AACCTATACC      120
AACCTCTCTT TGTACATAAA TATGGTGATG TAGCTAGATA TAAAAATCAG TGTCTTACTG      180
GCACCATTTA CAGTTTAGAA AACAATCTTT TTCTTAAAAA TGCCCATCTG ATTTCTATTT      240
TTAGGAGCTA CTTGGATTTG TATGTATTTT TTCTACGTGA AAATATATGT ACTCTTCACT      300
TTTGTTCCAG TACTATAATT GCTCATGCAC TCTTTCTCCC CTTTGAGAAC ATTCAGTGAA      360
ATACAACTTC ATCAAAGATT TGCTCAAAGG AGAAGAATCG CATGAGTGTG AAAAGTAGAT      420
GCTCGTAGCC AGAACAGAAA AGGTTACACA TGATCATGGC ACAGAAGATA GGAGGTTTGA      480
CTTGGTGGGC CATAATGTTT ATTATCCTTT TTGAAATAAC AGGGACCAGC AGCACTCTCG      540
AG                                     542

```

(2) INFORMATION FOR SEQ ID NO:1078:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 574 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1078:

```

GAATTCGGCC TTCATGGCCT AGGTTGCCAT TACTTGTGAT GCCTCTGAAT GTGGAGGCTG      60
ACTCTCCCGT CTCTCTGTCC CTCTACCCC ACGGGGCGC AGCAAAAGCC ATCCTGGGCC      120
TTCGACTGGG CCATGTCTTC AGGAAGATTC CTGAAGAGGA GGGCCCGAAA TACCTGCCTT      180
TATAGTTTCC CAGAGTGCCC TAGAACATTC TTAGATACAT ATTTTTTAAA CAAGTAGGAC      240
TCCACCTTAT TTTCTCCAAT AGTCCCAAG CAGTACAGGT CACTTGAAGA CATAAACATT      300
CTTCTTGGTT GAGGGATCCA CGCCCTTGT TCGAAATGA CACCACAGAA GGCTGTGAGC      360
TCCAGGAGCA TGCGTTGGGA TGTCCGGATG ACCGGGTTT AAAGGTTTTC CTATTCTCGA      420
TAAAGCCTGT GCGCACTGTA CGGGGAGTGG GGTGAAGCG TGTCTCTAC ATAGGCAACA      480

```

CAGCCGCCTA AGTCACAAAG TCAGTGGTGC GCCGCTTCGA CCAACATGTG GTGAGCATTG 540
CACGGGCGCA TGAAGTCTGG GTGCTGTGCT CGAG 574

(2) INFORMATION FOR SEQ ID NO:1079:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1079:

GAATTCGGCC TTCATGGCCT AGGGGCCAGG CGGCCGCCGC GAGTCTGGTA TCCTGAGCTT 60
CGTGAGTTGA GCGCTGCTGC TCCGCGGTGG AGTCACCGCA CCGCTCCCGG GATCATGGTG 120
TTCTAGTTCA CCAGCAGCAG CGTTAATTCA TCTGCCTACA CTATTTACAT GGGAAAAGAT 180
AAATATGAAA ATGAAGATCT GATCAAGCAT GGCTGGCCTG AAGATATCTG GGAGAGAATA 240
TAGAAGACAT CCCAAAGGAA GTGCTGATGG ACTGTGCGCT CGAG 284

(2) INFORMATION FOR SEQ ID NO:1080:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1080:

GTGAACACCA GAAAATACCC TGCAATTCAG CAGAACCAAA ATCCATACCT GCCCTTTCAA 60
TGGAAACACA GAAACTTGGT TCAGTTTGTG CTCCAGAATC GCCAAAACCT ACTCCTCTTA 120
CTCCCTTGGA GCCTCAGAAA CCTGGCTCTG TTGTTTCTCA TGAGCTACAG ACACCTCTTC 180
CTTNTCCTGA GCCTTCAAAA CCTGCCTCTG TTTCTTCTCC TGAACCTCCA AAATCAGTCC 240
CTGTTTGTA GTCTCAGAAA CTGCCCCCTG TTCCTTCTCC AGAACCCAG AAACCTGCC 300
ATGTATCTCC TGAGTCAGTA AAGGNTACTA TTNGTAATCC CAAACCCAG ATTCTCGAG 359

(2) INFORMATION FOR SEQ ID NO:1081:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 474 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1081:

GCCCCGCAGA TGGGAAACGC ATCATATTCT GATTCTTACC TGGAAGGAAT TTTGTTGAAA 60
GGGGTTTCA CCTGTGAGCC TTGGTCTGTC TCGGTAGGGT GGTCAACTTC AGTGGACTGT 120
GGTTGGTTTC AGAGCGCCTG GCTGAGGAGT TCCACTGAGG GGAGCACTGG AGCAGCCCTT 180
TGGCAGAGGC TGAGGAGGGA GATGGACCAG CCCACGCTG GCACCTGGCT CCATGCGATA 240
AGGAAAGGGA GATGCTGGCC TCTGTGCTCC TGCTGTCTT TCCTGTTTCT GTTTGCGTTT 300
GACTTAGTAG CAACCGACAG AGTGGCAAGG GATTGTTGCT TCAGCAGTAG ACATCCTTCC 360
ACCCCTGCC TCAGCCAAGT CTCTTGCTGC CATGCCAATG CTATGTCCAC CCTTGCCCCT 420

CGGCCCAAGA GTGTCCAGCG GTGGCCCACT TTTTCCTCCC ACCACAACCT CGAG

474

(2) INFORMATION FOR SEQ ID NO:1082:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1082:

GAATTCGGCC TTCATGGCCT AATGTGTGTG GCACAAAGAA GAAAGTGGAC TCTACACTGT	60
GTTAGTTAGG AAAACCAGAA ATTGGGCCAA ATTGCCTGTT TAGTGGGAGA GATANCTTTT	120
GAGAGCTGTG ATCCCGCTGG TGTGGCTGGC TCTGGGCAGA TATTTGTATC TGAAATGACT	180
CATGCTGTGG GACCCCTCCT GAGATCTAAC ACTTACAGTG GTTTCATGAG AAATTGCACC	240
ATGCTTGCCA AGCAACTTTT GGAATAAAAG TTGCTGCCCA CGTATATCAG GGGAAGAATA	300
TATATATATA TATATATAGT ACCTATCTTA GCATCTGATT TGTATGACCA TTAATTCAAT	360
GTAATAATAA AAATTGGCTT TCCAGCTTAA ACTTCAATTT CTGTATATT ATATGATCAT	420
GAGACAACCT CCCTGGGCTG ATCAACAGCA GGACGCTAAA AAGATTGAGT ATCTGAGTCA	480
GGAAGGTAGA GGGCCAAACC TCGAG	505

(2) INFORMATION FOR SEQ ID NO:1083:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1083:

GAATTCGGCC TTCATGGCCT ACTACTATTC AGAGACAACA GTGACACGGA CCTATGTGAT	60
GCTGGCCTTA GTGTGGGGAG GTGCCCTGGG CTTGGGGCTG CTGCCTGTGC TGGCCTGGAA	120
CTGCCTGGAT GGCCTGACCA CATGTGGCGT GGTATTATCCA CTCTCCAAGA ACCATCTGGT	180
AGTTCTGGCC ATTGCCTTCT TCATGGTGTG TGGCATCATG CTGCAGCTCT ACGCCCAAAT	240
CTGCCGCATC GTCTGCCGCC ATGCCAGCA GATTGCCCTT CAGCGGCACC TGCTGCCTGC	300
CTCCCACTAT GTGGCCACCC GCAAGGGCAT TGCCACACTG GCCGTGGTGC TTGGAGCCTT	360
TGCCGCCTGC TGGTTGCCCT TCACTGTCTA CTGCCTGCTG GGTGATGCCC ACTCTCCACC	420
TCTCTACACC TATCTTACCT TGCTCCCTGC CACCTACAAC TCCATGATCA ACCCTCTCGA	480
G	481

(2) INFORMATION FOR SEQ ID NO:1084:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1084:

GAATTCGGCC TTCATGGCCT ACCATTTTTA TTAAACCCAA ATCCATGGAA AATATCATGG	60
---	----

AAATGAATAA	GCGTCTAACA	GAAGAACAAG	CCAGAAAAAC	ATTGAGAGA	GCCATGAAAC	120
TGGAACAGGA	GTTACTGAA	CATTTACAG	CTATTGTACA	GGGGATACG	CTGGAAGACA	180
TTTACAACCA	AGTGAAACAG	ATCATAGAAG	AACAATCTGG	TTCTTACATC	TGGGTTCCGG	240
CAAAAGAAAA	GCTATGAAAA	CTCATGTTTC	TCTGTTTCTC	TTTTCCACAA	TTCCATTTTC	300
TTTGGCATCT	CTTGCCCTT	TCCTCTGGAG	TCTTTCTTGA	GTACTGATT	CATGTTGAAT	360
TGTATCCAC	ACATCATGGT	CATCTCGAG				389

(2) INFORMATION FOR SEQ ID NO:1085:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1085:

GCGATTGAAT	TCTAGACCTG	CCTCGAGACC	GCCTACGAAT	GGAAATCCAT	AAGAATGAGG	60
CTTGGCTCTC	TGAAGTCGAA	GGCAAACAG	GTGGGAGAGG	AGACAGAAGA	CATAGCAGTG	120
ACATAAATCA	TCTTGTAACA	CAGGGACGAG	AAAGTCCTGA	GGGAAGTTAC	ACTGATGATG	180
CAAACCAGGA	AGTCCGTGGG	CCACCCACGC	AGCATGGTCA	CCACAATGAG	TTTGATGATG	240
AATTGAGGA	TGATGATCCC	TTGCCTGCTA	TTGGACACTG	CAAAGCTATC	TACCCCTTTG	300
ATGGACATAA	TGAAGTACT	CTAGCAATGA	AAGAAGGTGA	AGTACTCGAG		350

(2) INFORMATION FOR SEQ ID NO:1086:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1086:

GCTCCACCAG	CTACTGAGAA	AATGGCCTGT	AAAGATCCAG	AAAAACCCAT	GGAGGCCTGT	60
GCCTCAGCAC	ATGTGCAACC	CAAGCCTGCC	CCTGAAGCCA	GTAGCCTAGA	GGAGCCCCAT	120
AGCCCAGAAA	CAGGGGAGAA	GGTAGTAGCA	GGAGAGGTAA	ACCCACCCAA	TGGCCCTGTG	180
GGGGACCCAC	TGAGCCTCTT	GTTTGGGGAT	GTGACATCCC	TGAAAAGCTT	TGATTTCATTG	240
ACAGGTTGTG	GTGACATAAT	AGCAGAACAA	CTCGAG			276

(2) INFORMATION FOR SEQ ID NO:1087:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1087:

GCAGAGACTT	AAAGGTTTAA	TAAAAATTGT	AAAGCCAGCA	GAGATTCCAG	AACTAAAAAA	60
GACTGAAACT	CAGACTACAG	GTGCAGAAAA	CAAAGCTAAA	AAGCTTACAT	TGCCTCTATT	120
TGGTGCCATC	AAAGGAGGAA	GCAAATTCAA	ATTAAAAACT	GGAACAGTAG	GGAAGTTACC	180

CCCCAAGCGT CCAGAACTCC CTCCAACCTCT AATGAGAATG AAAGATGAGC CTGAAGTAGA 240
AGAGGAGGAG GAAGAGGAAG AGGAAGAAGA GAAAGAAAAG GAGGAGCAGC TCGAG 295

(2) INFORMATION FOR SEQ ID NO:1088:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1088:

GAAATGAGGG TCCCTGAAGA AGCTCTTAAG CATGAGAAGT TTACCATTCA GCTTCAGTTG 60
TCCCAAAAAT CTTCAGAAATC AGAATTATCC AAATCTGCAA GTGCCAAAAG CATAGATTCA 120
AAGGTAGCAG ACGCTGCTAC TGAAGTGCAG CACAAAACIA CTGAAGCACT GAAATCCGAG 180
GAAAAGCCA TGGATATTTC TGCTATGCCC CGTGGTACTC CATTATATGG GCAGCCGTCA 240
TGGTGGGGGG ATGATGAGGT GGATGAAAAA AGAGCTTTCA AGACAAATGG CAAACCTGAA 300
GAAAAAACC ATGAAGCTGG AACATCAGGG TGCCTCGAG 339

(2) INFORMATION FOR SEQ ID NO:1089:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1089:

GAATTCGGCC TTCATGGCCT ACTCAAGAAT ACAGGTCTTA CTCGTATAGT CTTTGAACAA 60
TAGGCTGTGT GACTAAAAGA GAGACACAAT CAATTGCTTC CCAGTCAAGA AGCCAGAAAA 120
GCTTCAAAAC CTTTCCCCCT CCCTACTCCT TGCCACCGCA CCTAAAAAAA AGAGAAATCT 180
TTTAAGTGTT TAAAATCTGT AGGAGTCTTA TGAAGAAGCA GCTTTATGTG TATTCTTTAT 240
GGCATAATAT TAATGCATGA AAATCTGTTG CTTTTTAAA AATTGTGGCA AAATATACAT 300
AACATAAAAT TTATCAITTT AGCTATTTT AATATACAAT TCACTAGCAT TAAGTATTAA 360
TACATTCACA GCACCATTCG AACCATGGCC ACCATCATCT CCAGAACTTG ATCTTCTTCA 420
ACGCCCACTC GAG 433

(2) INFORMATION FOR SEQ ID NO:1090:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1090:

GACTGGGTCC ATGGGAGCAA GATTAGTGGC TGCTAAACTT GAACCGAAAA GCTTCAAACA 60
TACCCATATA GATAAACCG ACTGCTCAGG GCCCCCCATG GACATAAGTA ACAAGGCTTC 120
TGGGGAGATA AAAATTGCCT ATACTTACTC TGTTAGCTTC GAGGAAGATG ATAAGATCAG 180
ATGGGCGTCT AGATGGGACT ATATTCTGGA GTCTATGCCT CATACCCACA TTCAGTGGTT 240

TAGCATTATG AATTCCCTGG TCATTGTTCT CTTCTTATCT GGAATGGTAG CTATGATTAT 300
GTTACGGACA CCACTCGAG 319

(2) INFORMATION FOR SEQ ID NO:1091:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1091:

GTGCAAATTG AGCACATCAT TGAAAACATT GTTGCTGTCA CCAAAGGACT TTCAGAAAAA 60
TTGCCAGAGA AGTGGGAGAG CGTGAACTC CTGTTTGTGA AAACGTAGAA ATCGGCTGCA 120
CTTCCCATCT TTTCCTCGTT TGTCAAGCAAT TGGGATGAAG CCACCAAAAAG ATCTTTGCTT 180
AATAAGAAGA AAAAGAGGC AAGGAGAAAA CGAAGAGAAA GAAATTTTGA AAAACAAAAG 240
GAGAGGAAGA AGAAGAGGCA GCAGGCTAGG AAGACTGCAT CAGTTCCTAG TAAAGATGAT 300
GTGGCACCTG AAAGCGGTGA TACTCGAG 328

(2) INFORMATION FOR SEQ ID NO:1092:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1092:

GATCATGAAG TCCATCATCC CAGTGGTCAT GGCTGGCATC ATCGCCATCT ACGGCCTGGT 60
GGTGGCAGTC CTCATCGCCA ACTCCCTGAA TGACGACATC AACCTCGAG 109

(2) INFORMATION FOR SEQ ID NO:1093:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1093:

GAATTCGGCC TTCATGGCCT ACTGGAATTC ATAAGTCTAA ATGGTTCTAT GAGTCTAAAA 60
TTAAAGTGTT AGCAGGGCTG GGCTTCCTTT GGAAGCTCTA GAGAATGATC TGTTTTCATA 120
CCTTTTCCAG CTTGTATGAG CTGACTACAT TCCTTAGTTC ATGGCCCTGC TGCCACAGC 180
TTCAAATGAG ACAACACCAA GTTGAGTCCT CTTTAGATCA CATCAATTTA AATCTCCTAC 240
TATTCATATT TCCTTGAGAC TCTCCTATGC ATCCTTCCTT CTCTTCAAAG GATCTTTGTG 300
ATTATACTGG GCCCTCTGAA GAATCCATGA TAATCTTATC TCAAGGTGCT TAAGTTAATC 360
ACATTTACAA GATCTCCTTT TCCTCGAG 388

(2) INFORMATION FOR SEQ ID NO:1094:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1094:

```

GAATTCGGCC TTCATGGCCT AGGTGGCACA TGCCTGTGGT CCCAGTTACT CGGGAGGCTG      50
AGGTGGGAGG ATTGCTTGGG CCCGGGAGGT CAAGGCTGCA GTGAGCCGTG ATCTTGCCGC      120
TGTACTCCAG CCTGGTGATA GCGAGACCCT GTCTCAAAAA AATGCTTTTA GGGAAATTAA      180
TATGTCCTGT GCCTGTTTAA TCATTGAAAA CATTTTAATA TTTTCAGAGC CATAGAGGGC      240
AGTGAAAAAC AGAGTAGCAG AATTGATTAT ACCAGTACTA TTTATCCAAT GGCTAATACA      300
AATAAGACTC TCAGGGATAA TTCACACGTG CTTCCAAGAA CACTAGATGG CACCAATTAT      360
TTAGGATTCA GACTACCTCA GGGAACAGCT GTCTTCATTC AACAAATATT TATTAAATAA      420
TGAACAAAAC AAAAATATCT GTCATTGTGG AGCAGCTCGA G                                461

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(2) INFORMATION FOR SEQ ID NO:1095:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1095:

```

GAATTCGGCC TTCATGGCCT AAACCTATGC AGATGCCTGT GATGAGTTCC TGGATCCCAT      60
TATGAGCACA CTGATGTGTG ACCCTGTGGT GCTGCCATCT TCCAGAGTCA CTGTGGATAG      120
ATCCACCATT GCAAGACATT TGCTCAGTGA CCAACAGAT CCCTTTAACC GTAGTCCCCT      180
CACCATGGAC CAGATCCGGC CAAACACAGA ACTAAAAGAA AAAATCCAAC GGTGGCTTGC      240
AGAGAGGAAA CAACAAAAGG AGCAACTTGA ATAGATACTG TGAACCTAACC AAACCAAAAC      300
CAACCCGAGA TCTCGAG                                317

```

(2) INFORMATION FOR SEQ ID NO:1096:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1096:

```

GCTGCAGCCA ACGCGCAGCT CCACTGGAAG AGGATGGAGA ACCTCAAGGA GGAGGAAGAT      60
GACGACTCCT CCACAGCCTC AGACAGCGAT GTTCTCATCC GGGACAACCTA CGAGCGGGCA      120
GAGAAGCGGC CCATCCTGTC TGTGCAGAGA CGTGGATCTC CCAACCCGTT TGAATCACA      180
GACCGGGTGG AAATGGGACA AATGGCCTCC ATGTTCTTCA ATAAAGTGGG GGTCAACTTG      240
TTCTATTTCT GCATCATCGT TTACCTGTAT GGAGACCTCG CCATCTATGC TGCTGCCGTG      300
CCCTTCTCCC TCATGCAGGT GACCTGCAGC GCCACTGGCA ATGACTCCTG GCGGCTCGAG      360

```

(2) INFORMATION FOR SEQ ID NO:1097:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 311 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1097:

```
GAATTCGGCC TTCATGGCCT AGTGAGCCAC CGCACGGGGC CTAACGATGA TGAGAATTTG      60
ATGTGACATC TGCAGGATCC CCAGCTAGTC AGCAGCATCT AGAGGGCTAG AACTCTGGCC      120
AGCTGACTGG GCCTTTTGCT AACTGTTTTC TGTCCCCTCT GTGCCGGGGT GTCAGTGAGC      180
TTTGCGGGAC AGGCTGGTCT GTCGTGCCTT CAGCTCAGGG AATGTGGCTC CCGAGCATAG      240
GGCTGGACTG AGAGGCGTTA GGTGAGCCAG AGAAGGCCTC AGACACAGGG CTTAGAGAGG      300
GCTCCCTCGA G                                     311
```

(2) INFORMATION FOR SEQ ID NO:1098:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 436 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1098:

```
GAATTCGGCC TTCATGGCCT ACCTGCAGCT CTACAATATA TTTTCAAAC TCTTGATATT      60
GAGAACAAG GATACCTGAA TGTCTTTTCA CTTAATTATT TCTTTAGGGC CATACAGGAA      120
CTAATGAAAA TCCATGGACA AGATCCTGTT TCATTTCAGG ATGTCAAGGA TGAATCTTT      180
GACATGGTAA AACCAAAGGA TCCTTTGAAA ATCTCTCTTC AGGATTTAAT CAACAGTAAT      240
CAAGGAGACA CAGTAACCAC CATTCTAATC GATTTGAATG GCTTCTGGAC TTACGAGAAC      300
AGAGAGGCTC TTGTTGCAAA TGACAGTGAA AACTCTGCAG ACCTTGATGA TACATGATCT      360
CTGAAAGACT AGACTGTCTT ATATTATGAG ATACTGAAT GCTGCATGTA AAGCCTTTAA      420
AGCAAAAAAC CTCGAG                                     436
```

(2) INFORMATION FOR SEQ ID NO:1099:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 291 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1099:

```
GAGAAGATGC AAGTGGACCA GGAGGAACCA CATGTTGAAG AGCAACAGCA GCAGACACCA      60
GCAGAAAATA AGGCAGAGTC TGAAGAAATG GAGACCTCTC AAGCTGGATC CAAGGATAAA      120
AAGATGGACC TACCACCCCA AGCCAAGAAG GCAAAAGTGA AGACCAGTAC TGTGGACCTG      180
CCAATCGAGA ATCAGCTATT ATGGCAGATA GACAGAGAGA TGCTCAACTT GTACATTGAA      240
AATGAGGGTA AGATGATCAT GCAGGATAAA CTGGAGAAGG AGCGGCTCGA G                                     291
```

(2) INFORMATION FOR SEQ ID NO:1100:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1100:

```
GAATTCGGCC TTCATGGCCT AGTCATTTTA TAGGTTAAAA AAAGGTCAAA TTGTGACAAT    60
TTCATATGGT ACAATATAAA ATTATATTAA ATATACTCGA G                          101
```

(2) INFORMATION FOR SEQ ID NO:1101:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 492 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1101:

```
GAATTCGCCT TCATGGCCTA AGAAATACAT AGATCAAGTA AAACTCCAAC TACTGTAGCT    60
GGAATTTGTA AACTAAGTTT GTAAGACCTC TTTTATTTCC TATGGAGTTA TTCTTTAATT    120
TACAGTTTAT TCTGTAAGTT GGAAGTAAA ATAGAGAAAA TAATAAATCT AGATGTTCTC    180
AGTGTCTTAT TCAGGAACCT TTTATCCCTC CTCACTAAGG AATTCCTCACT GTGACTTTAA    240
AATAGAACTA AATTACTTGT GTGCATGTAT ATGTCTGTAT TTTTACACA CATGCAAAAA    300
TATACATTGG GGGCACGTGT GTGAGAGATA TGAATGTGTG CTTATATAAA AATAGATAAA    360
GGTAACCGAA TGTATTGTAG AAACATGATT TATTTAGTTG AGGGTATTGG AGTTACTTTC    420
TCATTGTCTC TGTGTGTATA ATACACCAA TTAATCATT TGTATCTTA TGTTAAAAGG    480
CTAGCTCTCG AG                                     492
```

(2) INFORMATION FOR SEQ ID NO:1102:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1102:

```
GAATTCGGCC TTCATGGCCT AGGCCTGCGT TAATACTCTT AATTATAGAA ACAATCCTTA    60
ATTAATAAAC AAGTCCTTTC ATTGGAAAAA GAACTAATAC ATTTTGTTC CTCAGTCAAA    120
ATTCTGTTTT TGTGGTTAGA GTAATAAAT GGTAAACACCT AGGGTCTGCC ACGATCATGG    180
TTCTCACTCT GGATTCATTC CCTACCACAT CCTTATTTCC CTCCTCTTCC CCATTCCCTC    240
ACTCACCTC CTCCTTTCCT TCCCTCACTC ACCCTCCTCT TCCCCATTCC CTCACTCACC    300
CTCCTCCTTT CCTTCCTCA CTCACCTCC CCCTTTCCTC GAG                          343
```

(2) INFORMATION FOR SEQ ID NO:1103:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1103:

```
GAATTCGGCC TTCATGGCCT AACCGGGCAA AAAAAAAAAA AAATCTTAAA AGCACTAACT    60
TACTATCAAA TCTCAAGAAA CAGAAGCAAT TTCAAAAAAT CAATACTATC CTTTGGGTCA    120
GTAACACTTT CTTCATTCTT AATGTATGAG AACAAATAAGG ACATTTTAGC TCCTTTACTC    180
TTCCTTCATT TAGTGACTTC CACATTTCTC TCACCATTTT TCCAGCCTCT GGGTGTGGTT    240
CTGATGAACC TTAAACTTGA AAGGCACAGG CCAGAACTCG AG                        282
```

(2) INFORMATION FOR SEQ ID NO:1104:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 205 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1104:

```
GCGATTGAAT TCTAGACCTG TCTTACGCTT CCCTTCCTAA GCCTTGTCT ACTCTGCTTT    60
GTCTGCTTTT ATGCTTCTCT CTCTTTTGTC TGAAGTGGTC TCTGTCCTCG TCCATGCTTC    120
AAGTCCTAAT TCAAATGCCA CTGTCTTAT GAAGGGCTCC CTGATTGTTC CAACCAAAAT    180
AAGCTTTTAT TCCTTTGAAC TCGAG                        205
```

(2) INFORMATION FOR SEQ ID NO:1105:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 249 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1105:

```
GAATTCGGAC TTCATGGCCT ACGTTTTTAT TACAAATATT ACATTAAACT AAAGCTCACA    60
ACTGTTACTA TGCATCAGGA ATTAACAGTC ATTTCTCATT TGTGTTATTG TCCTATTTGA    120
TCACATATAG TGAATATCTC TTTATGGGTT AAATATCAGT TTCTTGGCCA GAATTCAAGA    180
TCTGCCCCTA ACNAATCCTA CTCTCCCAG TACCCTTACA GCACTCCTAC CCTACTAGTA    240
ACCCTCGAG                        249
```

(2) INFORMATION FOR SEQ ID NO:1106:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 237 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1106:

AATTCTAGAC CTGCCTCGAG ATTGCTGCC AGTTTAATTC TTTAAACTC AGTTTAGCTG	60
TCCTTTTCTT TGGAACTT TCCCTAATCT TCCCCACCAC CTGTTTCATCA ACATATATAG	120
AAGCACATTT ACTCTCTCAT TCTCTCTCTT TCTCTCTCCA AGTCTATGTT AGGTGTTTAA	180
GCGTTTATCA TAGGTTTATG TTTACTTATC TCCCCACTAG TCTATGAAAT CCTCGAG	237

(2) INFORMATION FOR SEQ ID NO:1107:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1107:

GATTTATTAT AAAGCTGCAA AGAAGCTGTT GCACTCAGGA ATGAAAATTC TTAGCCAGGA	60
AAGAATTCAG AGCCTGAAGC AGAGCATAGA CTTTCATGGCT GACTTGCAGA AAACCTCGAAA	120
GCAGAAAGAT GGAACAGACA CCTCACAGAG TGGGGAGGAC GGAGGCTGCT GGCAGAGAGA	180
GAGAGAGGAC-TCTGGAGATG CCGAAGCACA CGCCTTCAAG AGTCCCAGCA AAGAAAATAA	240
AAAGAAAGAC AAAGATATGC TTGAAGATAA GTTTAAAGC AATAATTTAG AGAGAGAGCA	300
GGAGAGCCTC GAG	313

(2) INFORMATION FOR SEQ ID NO:1108:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 467 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1108:

GCGAGAACAC CATCACCATG ACAACCAGTC ACCAGCCTCA GGACAGATAC AAAGCTGTCT	60
GGCTTATCTT CTTTCATGCTG GGTCTGGGAA CGCTGCTCCC GTGGAATTTT TTCATGACGG	120
CCACTCAGTA TTTCACAAAC CGCCTGGACA TGTCCAGAA TGTGTCCTTG GTCAGTGTG	180
AACTGAGCAA GGACGCCAG GCGTCAGCCG CCCCTGCAGC ACCCTTGCCT GAGCGGAACT	240
CTCTCAGTGC CATCTTCAAC AATGTCATGA CCCTATGTGC CATGCTGCCC CTGCTGTTAT	300
TCACCTACCT CAACTCCTTC CTGCATCAGA GGATCCCCCA GTCCGTACGG ATCCTGGGCA	360
GCCTGGTGGC CATCCTGCTG GTGTTTCTGA TCACTGCCAT CCTGGTGAAG GTGCAGCTGG	420
ATGCTCTGCC CTTCTTTGTC ATCACCATGA TCAAGATCGC GCTCGAG	467

(2) INFORMATION FOR SEQ ID NO:1109:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1109:

GAATTGCGGA AACGGTCGTT CCACTCGCTC CAATGTGGCC CCCAGGCACC TACCTGATAG	60
CCATATGGGT CGAG	74

(2) INFORMATION FOR SEQ ID NO:1110:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 427 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1110:

```

GAATTCGGCC TTCATGGCCT AGGAATTTAG GAACCAAGAT ACTGGGGTGT TATTGTTTCT      60
AAGCTCTTTC AGTGAACAGA TCTAGGAAAT ACATGTGTGT CCTAATCCAT GAATACACAC      120
TAAATATAAA TTATTCTGT ATCTATGTCA AGCTAAACCT AAGTTCACAT TGAGGTTTCT      180
GACTTTAATA CAGTCCCACA AGGTCGTTC TAGCTTTCCT TCCTTGCATA CCTTTGACTT      240
TCCTCTCCAG CTGTGGGAAA CTTGGCTCTC TCCATCCACC ACCCCTTCAC TATTTGTTTA      300
ACCGTTGTAC ATATATAAAG CAGCGTTGGA ACTGTCAACC TGTTCCCAT GAGAACTTT      360
ACCCACTAGA GTACAGCGTT TATGCAGTTC TTTTGTAGT TTTTATAGAT TATAGCCAAA      420
ACTCGAG                                           427

```

(2) INFORMATION FOR SEQ ID NO:1111:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1111:

```

GGTGAACCCG AATCACCGAT GGATGTGGAT AATTCTAAAA ATAGTTGTCA AGACTCAGAA      60
GCAGATGAGG AGACAAGTCC AGGTTTGTAT GAACAAGAAG ATGGTAGTTC CTCCCAAACA      120
GCAAATAAAC CTTCAAGGTT CCAAGCAAGA GACGCTGACA TTGAATTGAG GAAACGGTAC      180
TCTACTAAGG GCGGTGAAGT TAGATTACAT TTCCAATTG AAGGAGGAGA GAGTCACACT      240
GGAATGAATG ATTTAAATGC TAAACTACCT GGAAATATT CTAGCCTGAA TGTAGATGC      300
AGAAATTCTA AGCAACATGG AAAAAAGGAT TCTAAATCA CAGATCATT CATGAGACAG      360
CCCAAACCTG AG                                           372

```

(2) INFORMATION FOR SEQ ID NO:1112:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1112:

```

GAATTCTAGA CCTGCCTCGA GCTATACCTG TATCCAGTCT TGATGCACAC CAGGCTGGGC      60
ACTTTCAGAA AACTACCTCT AACCTCCAGG GTTCCCTCAT CACTCGAG      108

```

(2) INFORMATION FOR SEQ ID NO:1113:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1113:

```
GAATTCGGCC TTCATGAAGA TTGAGAAGAA GGAGGAAAAA AAGCCTGAAG ACATTAAGAA      60
GGAAGAAAAA GACCAGGATG AGCTGAAACC CGGACCTACA AATCGGTCTA GAGTCACCAA      120
ATCAGGAAGC AGAGGAATGG AGCGGACGGT CGTGATGGAT AAATCGAAAG GAGAGCCCGT      180
CATTAGCGTG AAAACCACAA GCAGGTCCAA AGAGAGAAGC TCCAAGAGTC AGGATCGCAA      240
GTCAGAAAGC AAAGAAAAGA GAGACATCTT GTCGTTTGAT AAAATCAAAG AACAAAGGGA      300
GAGAGAGCGC CAGAGGCAGC GGAACGGGA GATCCGCGAA ACGGAGAGGC GCGGGAGCG      360
CGAGCAGCGG GAGCGTCTCG AG                                         382
```

(2) INFORMATION FOR SEQ ID NO:1114:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1114:

```
GAATTAGCAA AGGAAATCTC AGATTGCATT TCAAAGATG GTTGCTAGCT GCTGCCGTTT      60
CCTTTGCTAT TTCTGTCGAA TTAGCCGGCA AAATCAGAAG GCCATGTTT AGCATCTGAG      120
TTATCTTCTG GAGAAATAGCA GTGTGGCCT AGCCTCCCCG TCGATGAGGG GATCCACCCC      180
GCTGGATGTG GCAGCTTCCT CTGTGATGGA CAACAATGAG TTAGCGCTGA GCTTAGAGGA      240
ACCAGACCTC GAG                                         253
```

(2) INFORMATION FOR SEQ ID NO:1115:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 76 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1115:

```
GAATTTTTTT TTTTTTAAA GAAAGAAAAC TAGGGCGATG CAATGTCCAG ACAGAAGCCG      60
GGGGCCGGGG CTCGAG                                         76
```

(2) INFORMATION FOR SEQ ID NO:1116:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1116:

GAATTCGGCC TTCATGACGA CCGCGTCCAC CTCGCAGGTG CGCCAGAACT ACCACCAGGA	60
CACCCCTCGAG	70

(2) INFORMATION FOR SEQ ID NO:1117:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 526 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1117:

GAAAATGAAA AGTCTGTCT TTGATGAAGA CAAACTTTT GTAGCAGAAA CATTGGAAAT	60
GGGTGAGGTT GTTGAAAAGG ATACAACAGA ACTCATGGAA AAACCTGAGG TAACCAAGCG	120
AGAGAAATTA GAGCTGTCAC AGAGACTGTC TGATCTTTCT GAACAATTGA AACAGAAACA	180
TGGTGAGATT AGTTTCTTAA ATGAAGAAGT TAAATCTTTA AAGCAAGAGA AAGAACAAGT	240
TTCATTGAGA TGTAGAGAGC TAGAAATCAT TATTAACCAC AACAGGGCAG AAAATGTACA	300
GTCATGTGAT ACTCAAGTAA GCTCTTTATT AGATGGAGTT GTGACTATGA CAAGCAGGGG	360
TGCTGAAGGA TCAGTTTCTA AAGTAAATAA AAGTTTGGT GAAGAATCAA AAATAATGGT	420
GGAAGATAAA GTTCTTTTGA AAAATATGAC TGTGGAGAA GAAAGTAAGC AAGAACAGTT	480
GATTTGGAT CACTTACCAT CTGTAACAAA GGAATCTTCA CTCGAG	526

(2) INFORMATION FOR SEQ ID NO:1118:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 190 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1118:

CGATTGAATT CTAGACCTGC CTCGAGCCGA CCTACTCCAC AGCTGTCCTG ACTGTGTAAG	60
CGAGATGATG ATTAGTGATC AGACGAAAGG ATTCTGTGCA TTGGTAACCC TCTCAAAGTA	120
TTTGAAAAC AGTCAATTT TCATCTATTT CAGAAGCACG CCGTGGTGTC TATTGAGGCT	180
CACCCCTCGAG	190

(2) INFORMATION FOR SEQ ID NO:1119:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1119:

GAATTCGGCC TTCATGGCCT ACCATCCTGC ACTCAACCAA TCATCTGATG CTGACTCAGA	60
AGCTCTGTTT GGAGTACCTA ATGATAAGAA TTTACTGTGG GCTTATGCTG TTATCGGTAC	120


```

TTACATGTTT TTAGTTTCTG TCATTTTTTT TTGTCTGTTT TTAAAGAATA GCTCAAAGCA 180
AGAAAAAGCA AGAGCATCTG CTGAGACATT TCGAAGAGCA AAATATCACA ACGCCCTTCT 240
TTGTCTCCTT TTTCTGTTCT TCTTTTTTTA TGTGGAGCT GAGGTAACAT ATGGCTCTTA 300
TGTTTTCTCA TTTGCAACCA CCCATCTCGA G 331

```

(2) INFORMATION FOR SEQ ID NO:1120:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1120:

```

GAATTCGGCC TTCATGGCCT ACAGATTGTC ATCTTTACAA CCAGAAGCTC AGGGAGAAGT 60
TGAAGGAGGA GGAGAACACA GTGGGTATGT TCAGATTGCT TTTGGGTACC CTTGATCCAG 120
CCACATTGTC TACCCTAGAT GGGTGCTCAT GGTACTTCTT GGTGGCATT CAATAATAGG 180
TTGAGTTGTA TACCGTCTGT CTTTACACTA CATTATGAAA ATGAGATTAT TAAATAAGAA 240
TTTTGATGTA GCTGATAAGC TAGTAGAATT GGCACATGAT CCCTTTTATA CCCAGCCCTC 300
CTGTCTGGTG TGCTTGAGGT AATAATAACC CCTTTTATAC CCAAACCTCG AG 352

```

(2) INFORMATION FOR SEQ ID NO:1121:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1121:

```

GAATTCGGCC TTCATGGCCT ACCAATCTCT TTTACTGAGC ACAATGTGGG TAAAACTGCT 60
CTCTATAGTA GCAGAATTT GTTTTTCCCC TTTCCTAGTT ACTGATGAAG AGACAGCTTC 120
AGATGCTCTG GAGAGAACT CTCTATCCTC TCAAGACCCA CAGCAGCCCA CCACTACTGT 180
CTCAGTAACG GAAGATTCTA GTACATCGGA GATTGACAAG GAAGAGAAA AACAAACCAC 240
TCAAGATCCT GACTTGACCA CCGAAGCAA TCCTCAGTAT TTAGGACTGG CAAGAAAGAA 300
AAGTGGCATC CTGCTGCTCA CGCTGGTGTC CTTCCTCATT TTCATACTCT TCATCATAGT 360
CCAGCTCTTC ATCATGAAGC TGAGGAAAGC ACATGTGATA TGGAAAGAGAG AAAACGAAGT 420
TTCAGAACAC AACTAGAAA GTTACAGATC AAGGTCAAAT AATGAAGAAA CATCATCGCT 480
CGAG 484

```

(2) INFORMATION FOR SEQ ID NO:1122:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1122:

```

GAATTCGGCC TTCATGGCCT ACTTATGTTT TTCTCATTTG TTGACCTAAA TGATCTTTAT 60

```

```

CCAAACTATT CCAAAATCTG AATTTCTGGG TCCTTCTTTC TTAAAAATAT TCTGTTCAAT      120
ATTAAACAAA CAAACGTTTG AGAACATGAG TAACCTTTTG ACITTATCCC GTATCTGTTT      180
GCTAATGTTT TGTTCATGT CTTTCTTGTC AGAACACACT GTTGCAGCAC CTAGGAGTGC      240
ACTCGAG                                         247

```

(2) INFORMATION FOR SEQ ID NO:1123:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1123:

```

GAATTCGGCC TTCATGGCCT AGGAGGAAGC TAATAAGACA CTGTCAAGAT TGTATACCTT      60
CTTGGTTTCT TTTAAGAATT TGTTCCTTT CTACTATTAC AGCAAAGCAG CATTTTGTTA      120
CTGACTGCCT AAAATCACTT AATCTCAGGT GAACGCATCA CTTGCCAAAC TGTGGAATG      180
CTATTTGTTT TTGTTGCAC TGTFTTTTC GTTTGTTTGT TTGTTTATT GGTGGGCTTT      240
TTGGAGAGGG AAATTTGGAA ACGGGACACA CTCGAG                                         276

```

(2) INFORMATION FOR SEQ ID NO:1124:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1124:

```

GAATTACTAG CAGAGATCAG TGCTATAAGG GAAAAGGAGA TTGATTGAA AGAACTGGA      60
AAAAGAGACA TTCCCATGAT GGAGAAAGTA TCAGGAAAGA TGGCTGTTGT TGAAGAAATG      120
GAGGCAGATT TGAAGAAAC TGGAAAGAA AATTTTAGAG AGAGAGGATC TGAAGAGATC      180
TGTGTTACTG AGGAAAAGGT GGCAGAAATG AAACAACTG GAAAAACAGA CATTCTCCA      240
AGGGCCCTCG AG                                         252

```

(2) INFORMATION FOR SEQ ID NO:1125:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1125:

```

GAATTCGGCC TTCATGGCCT AACAGAATA TTCTGAGGCT AAAAGAAAAT ACACCCCGC      60
AAAAATCAAT ATAATATGA TTAAGTACAC AAAACATGCA GCCCATAAAA CATATTTAC      120
CTATGAACT GAGACTGAGG AATTTAACAG TAAACAGTCA TTGTTAAAG AAATATTTT      180
ACAATTTATT GCCTATGTAT AAGGCAGCAG GCCTGTACTC TCTGTATTT TCAATCTCTT      240
CCCCTACTCT GGCTCTTCT CAGCATATAA ATATGTTTCT ATCCCTACCT TATGGAAAC      300
ATTCCCATC CCTCGAG                                         317

```

(2) INFORMATION FOR SEQ ID NO:1126:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1126:

```

GAATTCGGCC TTCATGGCCT ACTTTGTAAC TGTGAAATAC TCTCCAGGAT TTAAAAGGCT      60
GTGGAGCTCC AGATAAAGAA TCGTTTATCT TTCTTCTGAA GAAATTCCTT TGGTTACAAG      120
TTTACCCCAT AAACGGCAAC ACACTCACCT CCATCCAAGA CAGACTCAAG GTGGAGGAAG      180
CGTGGAAATG TGCTTCCGGA CAAAGCTCTC AGTATCCTGG GTGCCATTGT TTCTTCTACT      240
CAGCCGTGTT TTTTCTACTG AGACAGACAA ACCCTCAGCC CAGGACAGCA GAAGCCGTGG      300
GAGTTCAGGC CAACCGGCAG ACCTGCTACA GGTTCCTCTCT GCTGGTGACC ACCCAGCCCA      360
CAACCACTCA AGAAGCCACT CG                                         382

```

(2) INFORMATION FOR SEQ ID NO:1127:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1127:

```

GAATTCGGCC TTCATGGCCT ACAGACTTCT GTGTGTGGGA CTGAAGCACC TGTGTGCAAA      60
TCTGAAGAAG CTCTGGTTGG TCAGCTGCTG CCTCACATCA GCATGTTGTC AGGATCTTGC      120
ATCAGTATTG AGCACCAGCC ATTCCCTGAC CAGACTCTAT GTGGGGGAGA ATGCCTTGGG      180
AGACTCAGGA GTCGCAATTT TATGTGAAAA AGCCAAGAAT CCACAGTGTA ACCTGCAGAA      240
ACTGGGGTTG GTGAATTCTG GCCTTACGTC AGTCTGTTGT TCAGCTTTGT CCTCGGTACT      300
CAGCACTAAT CAGAATCTCA CGCACCATCT CGAG                                         334

```

(2) INFORMATION FOR SEQ ID NO:1128:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1128:

```

GAATTCGGCC TTCATGGCCT AGTCTGTCCA TCTGCTTTCT CTGGACCTCC TTCTCATACT      60
TTGAATTTT TAAGTAGTTT GTCCCTCATA TGATTTTTT TCTATTCCTT TTCCCTTCC      120
TGTCCTTCCT TCACTCCTTT CCCTCCCACC TCCTCCCTC CTTTCCTCTC TCCCTTCCTT      180
CCTTCCTTCC ATCCAACCAT CCATCCATCC ATCCATCCAT CCATCCATCC ATCCATCTAT      240
CCACTCTCGA G                                         251

```

(2) INFORMATION FOR SEQ ID NO:1129:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1129:

```

GAATTCGGCC TTCATGGCCT AATTTCATGT NCCTTTGAGC TATCTTTCCA TTTTGTAGGA      60
ACACCGTCAC AGGAGACAAT TTCATGGACC TTTGAGCTGT CTTCCATTT TGTGGGAACG      120
CCGTCACAGG AGACAATTTT ATGTGCCTTT GAGCTGTCTT TCTATTTTGT AGGAACGCTC      180
TCAGAGGGGA CAATTTTCATG TGCCTTTGAG CTGTCTTTCC ATTTTGTAGG AACACTCACA      240
GCAGTGCTTG GGGTTCACCTG TTACCTAAAT CCCATGATGG GTGAGAAGAC TGAATGGGAC      300
GTTTATTTT TGTGTTAAAA AGCCACGCA AATAGAGTTT AAAATAGTCT CAGTGAGCTG      360
GGCATTCTCG AG                                     372

```

(2) INFORMATION FOR SEQ ID NO:1130:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1130:

```

GAATTCGGCC TTCATGGCCT AGTGCCTAGT TACAAGGTTT TATTACAGCA GTATTTCTAA      60
ACATTTGGTT AGTCTGTCTC TGCTTTTCCC ACCATAATTT TCTAGCACTT GTAGCTCACC      120
TTATCTCCA CTTCCCTTTT TAAATAGAAA ACAGGCTTGT TCTGTTTTGA CCAGGTATAA      180
CTCTTGCTC AGACTGTCTC TAAAGCCCAG AAAACTATTCT CTCTAGTGGT CCAATGAAGT      240
GTTCCTTATT GAAAGTTTGC CTCATGTCAC TCGAG                                     275

```

(2) INFORMATION FOR SEQ ID NO:1131:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1131:

```

GAAAATTGAG CCTATGTTGG AGACACTGGA GAATCTTTCC TCTCGCCTGC GTATGCCACC      60
ACTGATCCCT GCTGAAGTAG ACAAGATCAG AGAGTGCATC AGTGACAATA AGAGTGCCAC      120
CGTGGAGCTA GAAAACTGCG AGCCATCCTT TGAGGCCTTG AAGCGCCGTG GAGAGGAGCT      180
TATTGGACGA TCTCAGGGAG CAGACAAGGA TCTGGCTGCA AAAGAAATCC AGGATAAATT      240
GGATCAAATG GTATTCTTCT GGGAGGACAT CAAAGCTCGG GCTGAAGAAC GAGAAATCAA      300
ATTTCTTGAT GTCCTGAAT TAGCAGAGAA GTTCTGGTAT GACATGGCAG CTCTCCTGAC      360
CACCATCAAA GACACCCAG GACTCGAG                                     388

```

(2) INFORMATION FOR SEQ ID NO:1132:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1132:

```
GAATTCGGCC TTCATGGCCT AAAGTTATAC CAGCTAAAGT GCAGTAGTGT CACTTTTTTC      60
CTGTCAATAT ATAGAGACTT CTAAATCATA ATCATCCTTT TTTAAAAAA AGAATTTTAA      120
AAAAGATGGA TTTGACACAC TCACCATTTA ATCATTTCCA GCAAAATATA TGTTTGGCTG      180
AAATTATGTC AAATGGATGT AATATAGGGT TTGTTTGCTG CTTTGTATGG CTACGTTTTG      240
GAGAGAGCAA TCTTGCTGTG AAACAGTGTG GACTCGAG                                278
```

(2) INFORMATION FOR SEQ ID NO:1133:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1133:

```
GAATTCGGCC TTCATGGCCT AATCATTATA ATTTAGTTTG AATTCTTAAA ACCCCGTTAC      60
TAGAACTTAT GTTTAAATTT ATAAATTATA AATAGTTATA AATTATAAAT AAATTGAGAC      120
TGAGGCAGGA AAATCACTTG AACCCAGGAG GCAGAGGTTG CACTGAGCCA AGATCACGCC      180
ACTGCACTCC AGCCTGGGTG ACAGTGAGAC TCCATCTCAA AAAAAAAAAA AAATTATATA      240
TAAATTCTGG TAAGTAAGTT TGAAGAAAAA CCGATTCAA TAGTATATAT TCAGCTTTAT      300
AAATTCTGTT AAGCATATTT GAATGAGAAT TTATTTAAAT GGTATATAT AAGTCTACGG      360
TTCTCGAG                                368
```

(2) INFORMATION FOR SEQ ID NO:1134:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 441 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1134:

```
GAATTCGGCC TTCATGGCCT ACGTCTGATT CTCTAAGTTC ATTTCTTGGT GGTGGAGGCT      60
CATTTCTTCT GGAGTCACTG AAATTTTGG GATATCTTTC GAAGCTTGGA TCTTCCCTTC      120
GTGCAGTAGG TCGTGCTTTT TTCCCCTCAC TTTGACCAAC AAAGCGATCC CGCCTTTCAA      180
AAGATGAAGA CTGTACTGCT GAACTCTCAG GAAACCTGCC CCTCTCTCGG TGATCAAAGT      240
CATTAAATCT GTTCTGTGG CGAGAGTAGT CGGATCCATG GCCAAATCGT GCATCTGTAT      300
CTAGAGACAA CTTTTTATTC TCGCTCCAGT AAGGATCATC TCGCCTATGA TCTACATCAC      360
GTGGGCGTT CAAGGAATTC CTTTTTCTT GTTCATAACG AAGCTGCTGT TGTTGCCTTC      420
TGAGTTCCTC TCTTCTCGA G                                441
```

(2) INFORMATION FOR SEQ ID NO:1135:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 115 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1135:

GCGATTGAAT TCTAGACCTG CCTCGAGCAA GAAACGTTTT CTAAGTCAAA GGAATAAATC	60
CAAAGCCTCT AAGACTGGGT GAGAGAGAGG AAAAGAAATG ACGGAAGCAC TCGAG	115

(2) INFORMATION FOR SEQ ID NO:1136:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 253 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1136:

GAATTCGGT TTTACTGAAG CTATGTTAGA AACGTCATGT AGAAACTCTT TAGATACTGA	60
GCTTCAGTTT GCTGAAAATA AGCCAGGCAT GTCTTTGTTG CAGGAAAACG TAAGCACAAA	120
GGGTGACGAT ACAGATGTCA TGCTCACAGG TGACACTTTG AGCACCTCAT TGCAGTCTTC	180
CCCAGAAGTG CAGGTACCTC CTACCTCCTT CGAAACAGAA GAAACGCCCC GTCGGGTACC	240
CCCAGATCTC GAG	253

(2) INFORMATION FOR SEQ ID NO:1137:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 339 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1137:

GAATTCGGCT TCATGGACGA GGAGATCGTG TCCGAGAAGC AAGCCGAGGA GAGCCACCGG	60
CAGGACAGCG CCAACCTGCT CATCTTCATC CTGCTGCTCA CCCTCACCAT TCTCACAATC	120
TGGCTCTTCA AGCACCGCCG GGCCCGCTTC CTGCACGAAA CCGGCCTGGC TATGATTTAT	180
GGTCTTTTGG TGGGCCTTGT GCTTCGGTAT GGCATTCTAT TTCCGAGTGA TGTAAATAAT	240
GTGACCCTGA GCTGTGAAGT GCAGTCAAGT CCAACTACCT TACTGGTAAA TGTTAGTGGA	300
AAATTTTATG AGTATATGCT GAAAGGAGAG ATACTCGAG	339

(2) INFORMATION FOR SEQ ID NO:1138:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 363 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1138:

GAATTCGGCC	TTCATGGCCT	AATTCAGAGG	TGGTGGGACC	TTGGCTATGA	TTCTGTTCAA	60
GCCCCCTAAT	TTTACAGATT	TTATGGAATT	GAGCAACAGA	CAAGATGATT	TTGCCTAGGT	120
TCATAAACAG	GAAAAAAGGA	GAGCCAGGAA	AGAACTCAAT	TGTGTAAAC	TGCTGTCTTG	180
TCTTGATGTT	CTGTCTTCAT	TCATCATCCA	GCCTTTCCTA	GGAGTGTGAG	AGATAGACCC	240
AGGTAGAAGT	GGGCTGCCCA	TGGGGGGCTT	AGCACACAG	AAATTTATTC	TTTACTGTT	300
CTGGAGGCCA	GACATCTAAA	ATAAAGGTGT	TGATGGGGTC	ATCTTCCTC	TTGAGGGCTC	360
GAG						363

(2) INFORMATION FOR SEQ ID NO:1139:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1139:

GAATTCGGCC	TTCATGGCCT	ACTTGTAGAA	TATTGAGCAA	TTTGTGTGAA	GTGGGGAAGA	60
TGAAAGAAGT	CAGAAATTGA	AACGGAAGAA	TGAAGAAAAG	AAATAAAAAT	GAAGTTAAGA	120
TAAGAAGTAA	TCTGGAATCA	GAAAGCACTA	CGCTAAGAAT	CCCGTTCTGC	TTCCAGAAGT	180
CGAAGTGCTC	ACGGATCGGG	GAAATCTGCA	AGGCATACCC	CTGCAAGGTC	TCGCTCCAAG	240
GAAGATTCCA	GGCGTTCCAG	ATCAAAGTCC	AGGTCCCGAT	CTGAATCTAG	GTCTAGATCC	300
AGAAGAAGCT	CCCGAAGGCA	TTATACCCGG	TCACGGTCTC	GCTCCCGCTC	CCAAGGACGA	360
TCTCGAG						367

(2) INFORMATION FOR SEQ ID NO:1140:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1140:

GAATTCGGCC	TTCATGGCCT	ACACCCTCAC	CACCCAAGGG	GTCTATCATCT	CTGGCCACCA	60
CTCCACCAGA	TGGGCAGAGC	AGCTATGACC	GCCACCCAGC	CCTCCCGCTC	AGGCCACAGC	120
CGGAGCCTCC	GCATTGCCCC	CACCCCCATT	TTCCAGGGGG	GTTGTAATTT	ATAAGCTGAC	180
GAAGGTAGCC	AGACTTCCGG	AGGACTGACC	ATCTCTCACT	GTCTCCCCCA	CCTTCTTCCT	240
CACTCACACA	TTTTTTGTAC	ATCTGGGCCC	TTAGTTTTTA	TTCTGTTTAT	TATATGTCTC	300
TGTCTCTCTC	TATTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	360
TGCAGGAGTG	CCACCCCCAG	GGCCTCGAG				389

(2) INFORMATION FOR SEQ ID NO:1141:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1141:

```

GAATTCGGCC TTCATGGCCT AGCAGCACTA ATCTTGATGG GACAGAAAAT TTCAAATGAA      60
GAGCTTTCCC TCTTTTTCCT TTCCTTGGGG GCATGCCAGC TTGTGCTTCT ATGTCAGTAG      120
CCTTGATGTT GCCATTCCCTG GCCCAGACAC TTGCATGCAG TTTGGTTTGT CCTCCACCAC      180
TTTGATCATG TTGCCCATGG TCTAGACACC TCCGTGTCCT TGTATCATG GCATATAGTC      240
TGTATGCCTC TGCTGGATTT ATAAGCGGCC CCATAATAGC CTTCTTTTCT GGTACCCCC      300
TTGATCTCGA G                                     311

```

(2) INFORMATION FOR SEQ ID NO:1142:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 530 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1142:

```

GAATTCGGCC TTCATGGCCT AAAAGATCAG ATTTTGTCAT TTAAGACACA TATTTTACAT      60
TCAAAAATGT AAAGTCAGGG TGTGCTTAA AATCCATTGG TGTTTTAATC ATGCTTAAAC      120
ATGTGACTGC TGTGGCCAG GATACAGTTG TGGTGGTGTC GTCAGTATCT GAGCACATGT      180
GAACCTNGCC ATGACTATTC ATATTGTCTT CTCTTAAACT GAATTATGTC CATGGTTGCC      240
AACATGTACT GTCCATAGTT GCCACCATGT ATTTAGGTTG TCATTAAAAA TGTCCTCAAA      300
AAGATTTTAC CATGATTCTC CATCAAAATA GAAAGCTATT TTGTATGAAG AAGAAGTCAG      360
ACCAGAAAAG TCTGATAAAA ATAATCTCTT AAATAAGTCT ACATTAGGTC TTTCAATTG      420
TATAAAATGT AAATTTTGAA TTATAAGAAA ACAATTGTT ATACTGTAAT TGGTAGCATT      480
TTTTCTTAGT AGTGTAACAA ATAATGTGTA CCTTACATTC AAATCTCGAG      530

```

(2) INFORMATION FOR SEQ ID NO:1143:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 615 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1143:

```

GAATTCGGCC NNCATGGCCN ACCTATGTNA NGNATTTNN CTCCATTNCC CNAGGGTTC      60
TTTCCTGTTC TTAGAAATGT TTGTGATTT TGCTTCAGAC ACAGTTTGTC TACTTCTNGT      120
AAGCATTGTT CTAGATNGC TGGCTTTATA TCTATCACTC CCTTGCTCAT CTGCCCATCC      180
ATCTATCCAT CCATCCATCC ATCCATCCAT CATCCCTCCA TCCACTTGCT CATCTGCCCA      240
TCCATCCATC CATCTATCCA TTCATCCAGT CCATTCAACA CCCACCATCT ATTATCCATC      300
CATCCATCCA TCCATCCATC CATTATCCA CTCACCCATT CATCCATCAT CCATCCACTC      360
ANCCATCCAT TCATTGATC ACCCTTCATC CATTCACTCA CCCATCCTTC CATCCACTCA      420
TCCAATCACC CATCCATCCA TACATCCACT CATCCATTCA CCATCCATAC ATCCACTCAT      480
CCATTATCC ATCCATCCAC CCACCCAGAC GTCCGTCCAT CNATCCATCC ATCCATNCAT      540
CCTTCTATNN NNTCTGCCAA CAATCCANAC ACNTGTCCNT CNATCCCTTC CAACCACTCA      600
CCCAGCACAC TCGAG                                     615

```

(2) INFORMATION FOR SEQ ID NO:1144:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1144:

GAATTCGGCC AAAGAGGCCT AACCGCGGCC GCTACTTCGG CCTCTTTGGC CCTCGAG

57

(2) INFORMATION FOR SEQ ID NO:1145:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 227 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1145:

GAATTCGGCC TTCATGGCCT AGGTTTTCTT TATTTTAAAA GATCATTAC	AAAATACCAT	60
ATCCATAGAT TACTTTCTG TCATATAGCT GAATGTGTTA AGTGTGTTGA	ATTCCATTCT	120
TACATTTAAA GGTCAACTGG ATTGCCAGC AGTTTAGATG CATGTGTTT	GTTCTTTATC	180
TTATCCACAT TGAAGATGTA AGTATTGAAT TCTAGACCTG	CCTCGAG	227

(2) INFORMATION FOR SEQ ID NO:1146:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 447 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1146:

CTCGAGTATC TCCTCCTTTC TGATATCCAG TTTAGGTGGT CCAATTTTTC	CATCTCGGCA	60
TACAGCAAAT TCTTCTGACT TTGCATAGGC AGATTCTTTT TGTCCAACCC	TGGCTTTAAC	120
TCTGACCCAA AGAGAATTTG ATGGATCACC AACATGATCA GAAATATTAC	AATAATGATG	180
AGAAATATTG ATGCAGGCAT CAATCCATTC TGAATTTCTA ACACCATAGT	TCTTTACCTC	240
TACGGTAAAA ACAGGGACCT GTGGCATGAT CTGGTACTCC CAATATACGA	TAGGGTTCAT	300
GTTATAGGAT TCAATTGTAA CATTAGTTGG TGTAGGCACT GAGGACGGCC	CCAGATCCGC	360
GGTGCCCATC TCAGCCCTGC TCACACCCTG CATGACAAGG GGTAGGAGAA	AGAGGAGAGC	420
CATGCTGCTA CCGACGGTCG CTGGCTC		447

(2) INFORMATION FOR SEQ ID NO:1147:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 271 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1147:

```

GGGCGCCATG TTTGCCATCT CAGGTCCAGG TTTCTCCCGG ACTTCGAAGA GCTCATTATC      60
GGGTCTGATT TTCAGCTCCT TCTGCAGAGT CTTCCGGAGC TCCAGCATCC GCTGCTGCAT      120
CTGCTTTATG GTCTTATTTT TCTCCAGAAG TTGCTGCTCC AAGTCCTGTT TCTCCTTCTG      180
TAGCTGTGTG AGATCCATGG CCCCACCTC ACCATTGGT GTTCTTCCTG CAGTTGGAAG      240
CTGGAACACA GGGTCCTGCA TGGCCCTCGA G

```

(2) INFORMATION FOR SEQ ID NO:1148:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1148:

```

GGATTGGGGA GGGAGTGTGC GAATAGGTGT GGGTGACAGA CATCAAGTAC TTAACAGGGT      60
AATAGAATAT CACAAGGCAA GTGGAGGCAG GGCAGATCA CAGGACCACA GGACCAAGGC      120
AAAATTAAAA TTGCTAATGA AGTTTGGGC ACCATTGTCA TTGATAACAT CTTATCAGGA      180
GACAGGGTTT GAGAGCAACC GGTCTGACCA AAATTTATTA GGCGGGAATT TCCTCCTCCT      240
AATAAGCCTG GGAGCGCTAT GGGAGACTGG AGTTTATTTT ATCTCTGCCT GCCTCGAG      298

```

(2) INFORMATION FOR SEQ ID NO:1149:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1149:

```

GAATTGGGCC TTCATGGCCT ACGGCATTTC AGCGTCAAGT GCACTTAGCG GGGTACCCGG      60
CTCCCCCAGC CCCACACCC GTCCTGGGTC TCAGGGTGGT TCCAGCTTCT CTTGGGCAG      120
CCAGAAGTTG GAGTCCCATC CCCANNGNA NATTTTTTTT TTTTTTTT TGTGATCAGG      180
GAGTGTGTCC AACGTAGCCC CTTGGCCTGT GCAAGCCCTG ACTCCCTCAT GGTGCCTCGG      240
AGAGTGGGGA GCATATTGGG CTGGGGTAAG CACTAGACCC AAGTAGACTG GACACAAAGG      300
GCTCGCCCAG GGCCTGGCG CCACCCCTCG AG

```

(2) INFORMATION FOR SEQ ID NO:1150:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1150:

```

GCGAGGCAGG GAAACTCACT TCACGTCTCT TTCCTTGTAG AGCATCATGC TTATTCTGG      60
CTCACTCACA TCTTTGTCTC GGGAGTTCTC TGCCGAGCCA TTGCCCCCTA CAGCAGAGAG      120
CACAGCTGGC TGCACTAGTG CTGAAGCAGC CAGCCCCAGA CCAGGCGATT TCCAGCGCCT      180

```

```

CTTGTCCCAG AGCGGCAGGC GTTGTGTGCA GAGAACGCC CTCCACGCA GCACAGAGAA    240
CGCGGGGTGG GTGTGTGGCT CCGGGCCTGT GGGGCTTAGG CTGCCTGAAC CACCGCCGAC    300
TGGCACCATG ACTCGGCATT CCTGGAAGTG CCTTACCAAG TTGTTGTTGT TGTTTTGTG    360
TTTTTAAGA GACGGGCTTG CTCTATCATC CAGGCTCGAG                        400

```

(2) INFORMATION FOR SEQ ID NO:1151:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1151:

```

GAATTCGGCC TTCATGGCCT ACCCAGACAA ATACCAAGTT TATTTACAA AACTAGGAA    60
GATGGGTTGA GGGTGGAGGT GGGGGACACA GGTGCGCAGC TGCACAGAGT CAGCAGCAGC    120
AGCCTGCTCC CCGCACTGAG GACTCGGCCT GGANTGCAGT GCCTCCAAAT CAACACGCAG    180
CAAGAGGGGA GTGCAGGGAG GGCCCTGAAC ACCAAGCCTC TGAAAGGCTA AGGGACACAG    240
CTCCAGCTGT CCCAGGAAAA CCAGCAATAA ATAAAAGTGA GGCACGGCCC CACCACACA    300
TATCATCTAG TCACCCATCT TCACTCTGG                        329

```

(2) INFORMATION FOR SEQ ID NO:1152:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1152:

```

GAATTCGGCC TTCATGGCCT ACCCATAGCC ATGAGCATGA CTGGCTGCCA GCTCTTAGTC    60
ACCAAATGCC ATTCTCCGCT GAAAGAAGCA AGGGCTTTTC AGAGAATAGA CTGAGCACAA    120
AAATGACAAT GGTAAATGGAG TAGAACACCT TGACTTTTAA AAGTCCACGA GTCCACAGTG    180
ATGCCTAAGG GAAGTAGGGA GGAAAGCTCT TCTTTACAAC ATCTTCCAGC TAACAGATGG    240
AAAAGGAATG ACAAATGAA AAATCACCAT ATTGCACTC TCAATAAAGT AACTGATTCA    300
GGCATATCTC GAG                        313

```

(2) INFORMATION FOR SEQ ID NO:1153:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1153:

```

GGGTCCTCG CCAAGGAAC CTGGGCAGAA GAGGGCAGCA GTGGCAGTA GCTGCCGATG    60
TCTGTCCCCA GCTCCACCAT TCCTCCCTGT GGCTGTGCCG TGCTCGTGGT TTCAGTGTCC    120
GTGTGTCCAT GTGTCTGCCC TTCAGGAGCT CGCAGCTGGT GTGCTTGGCG GTCCCAGGCC    180
TGTGTAGTGT CTCTCCCCTG CTGGGGGCGC CCCCACCCCG ATTCTCTCC CCAGAAGCGG    240

```

TGGGATGGGC CCCCATGAAC TGCAGCAGCA TGCTGAGGTG TCCATGTTGT CTGCCTTTGT 300
ATAAAGAAAC AGCCTCTACT CGAG 324

(2) INFORMATION FOR SEQ ID NO:1154:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1154:

GCGAGTTCAG CGGAGAAAAG AAAAAGCAAC GTTTAATTCT AGAAGGCCTC CTGTCCCTGC 60
CTGCTCTGGG TGCTCATGGA ATCAGCTGCT GCCCTGCACT TCTCCCGGCC AGCCTCCCTC 120
CTCCTCCTCC TCCTCAGCCT GTGTGCACTG GTCTCAGCCC AGTTTATTGT CGTGGGGCCC 180
ACTGATCCCA TCTTGGCCAC GGTGGAGAA AACACTACGT TACGCTGCCA TCTGTCACCT 240
GAGAAAAATG CTGAGGACAT GGAGGTGCGG TGGTCCGGT CTCAGTTCTC CCCCGCAGTG 300
TTTGTGTATA AAGGTGGCGC ACTCGAG 327

(2) INFORMATION FOR SEQ ID NO:1155:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 504 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1155:

GAATTCGGCC TTCATGGCCT ACGAGCCCTT TGCCTCCAGT AGTCCACCT TTCTGGACTG 60
AACTGATATT CACCTTACAC AAATGGATTG ATGTCTCATG TCTCCCTAAA ATGTACAAAA 120
CCAAGCTGTG CCCCAACCAC TTGGGCACAT GTCATCAGAC CTTCTGAGGC TGTGTACGG 180
GTGCACGTCC TCAACCTTGG CAAAATAAAC TTTCTAAGTT ATCTGAGACC TGTCTCAGAT 240
TTTTGGGGTT CACACACCAT ATGTCTGAAT ACTGTCTTTT CCTATCTCTG GCTCCATCCC 300
ACATTGTAAG GGGCCTTGCA CACACAAATG TGGACATTCC AGCCTGCACA CCTAAGCATC 360
GCCTCCACTC CCACCCTTCC AGCGGATGGG TGTGAAAAC TGGCAGTGTG TTCATCTTCA 420
AGATGATGTA TACAGGAAAG TGGTCCAGGC AGATCCTGTG AGCAGGCTTG GGCCCACTTG 480
GGAAGAGTAA CCCAGGATCT CGAG 504

(2) INFORMATION FOR SEQ ID NO:1156:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 686 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1156:

GNNNNNNNNN NNNNNNNNNN TTCCCCCTTN TNNCATGTTT TGTTCCTTTN TCCTTGTTTN 60
TTTTTTCGGC AAAATATTTT AAGNTATACC CAGGCAACAT NAANTCCAGT TCGGATTTTA 120
ATTAGTCGAG TATGCAGCGT CTTTTCATTT TTATTACTCA AAAAAGTTTC ATTTTTTTAT 180

```

TTAGCTTTCT GACTCTGTGC TTGTGCCTTC AACACTTTCA CAACGATTTT CTGCTCCTCG      240
ATAAGGAAAG CACGCTTGAT CCTGTCACGA ACACATTTAG CACACATGGA ACCACCATAG      300
GCCCTGCTGA CATGTTTCTT TGTTTTGGAC AATCTCATAA GAACTTTAGG TCTTACAGCA      360
CGAACCCTC GAAGTCTGCC TGGGCACACA CCACATGCAG ATTTTGGTGC TTTCCCAACC      420
TTCTTGGTAT AAAGGTAAAC AATTCTATTA CCAGGGGTTT GGGACAGCCT AGTTTGTGTA      480
GAGGCTGTAT TGTAGGAAAG CCTACGTCGG TATGTCAAAC GCTGGACCAT TCTGAGTGCC      540
TGCAGACAAC CAAGGGTGAC TATAATGACA GCGTGCAAGT TGTGGACTGT GGACTAAGTC      600
TGAATGATAC TGCTTTTGAG AAAATGATCA TTTCAGAAAT AGTGCACAAC AACTTACGGG      660
GCAGCAGCAA GACTCACAAC CTCGAG                                           686

```

(2) INFORMATION FOR SEQ ID NO:1157:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1157:

```

GCAATTTGCT TTTTAAAAA TACATTTTCA TACACTAAGT TTTCTGTTAG CCTAAGTAAT      60
TATATTTCTA ATTAACCTCA AAGTAATTGA TAGGTGGCAA AGGATATCAA TCAAAACCAG      120
TCCAAGTAAA AAATGTACAC TAATTTAATA ACAATATTAT TCTATATTAC TTTTTTTTTT      180
TTTTTTTGAC ACAGGAGTTT CACTCTTCTT GCCCAGGCTG GAGTGCAGTG GCACGTCTCG      240
GCTCACTGCA ACCTCCACGC CCCCAGACT CGAG                                           274

```

(2) INFORMATION FOR SEQ ID NO:1158:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1158:

```

GAAGATGGAC AACCGGGATG TTGCAGGAAA GGCTAACCGG TGGTTTGGGG TTGCTCCCCC      60
TAAATCTGGA AAAATGAACA TGAACATCCT TCACCAGGAA GAGCTCATCG CTCAGAAGAA      120
ACGGGAAATT GAAGCCAAA TGAACAGAA AGCCAAGCAG AATCAGGTGG CCAGCCCTCA      180
TGCCCCACAT CTCGAG                                           196

```

(2) INFORMATION FOR SEQ ID NO:1159:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 141 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1159:

```

GAATTCGGCC TTCATGGCCT AGAGGTGAAA TACAGAAAGC CTTTTTTTCT TGATCTTTTC      60
CCGAGATTCA AATCTCCAAT TCCATTGCG GGCAGAGTTT TTTCTTTCAC CTTCAATATG      120

```

AGAATTCAGC GAACCCTCGA G

141

(2) INFORMATION FOR SEQ ID NO:1160:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1160:

GAATTCGGCC TTCATGGCCT AGTAATATAT ATAATTTATA AGTAAATATA AATTAGGGAG	60
GTGTACTCAA CATTTCATA GAATACATAG TCAAAAATGG TTGCAACCT CTGCCTAACA	120
AAAATAAAAC ACCCTACATC TTGGTTCAA GATTGTCACC CCCAACAGTT GTGTGAAATG	180
TGGGGCAGGA ATTATCACTA TTTTCCTTTG GAAATTAAGG TTCCAAAGAT AATGAGACCA	240
GAGCCAAAGG TCAGAGTCCA CTGTCTTCTC TCTGAGGCCT CAATGTGAAG ACCTGAACTG	300
TGGCAGCAGA TAATTCTGGA GACCTGTAA TCAGCTGTAT GCACCACAAC TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1161:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1161:

GTATTCATC ATATAATTTT CTTGAATTG GGAATTTAGG CAGTATGTTA TGGGATTTT	60
TTTTTAATTT ATTTTTTTTT TTTTLAGGAA GCTTGTTTCT CTTTGCATT TATAGAGAGC	120
ATGTTTATAT TAAAGAGTAC CTTCCATACT ATAGAACACA TTTGTGGGTG GATTCGGTCC	180
TTTTCTTTCT ACCCTCCCTG ATTGCTGCTA ACAATCCAGA AAGACAGAAA TTTTGTTTTC	240
ATTCAGGCAC ACTCGAG	257

(2) INFORMATION FOR SEQ ID NO:1162:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1162:

GAATTCGGCC TTCATGGCCT ACTGTTTCCT TGCCCTTTTC ACCGTCTGGT GGTCCCTGC	60
AGCCCTTGGC TTGTGGCCCT CTCATCCATC TTCCGAGCCT AGCACTCCAG TCTCTGCTTC	120
TGTCATCACA TGCCTTCTC TTGAGAAAGA TCCCAGGCTG GTATTAAAT TGCCTGTTGG	180
CAGGAACTTT GCCTGTCTTC CCCTACCCCC ACAGCTCGAG	220

(2) INFORMATION FOR SEQ ID NO:1163:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 405 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1163:

```

GAATTCGGCC TTCATGGCCT AATCACTTGA GGTCAAGAGT TCATGACCAG CCTGGCCAAC      60
ATGTTGAAAC CCCATCTCTA CTAAAAATAC AAAAATTAGC TGGGCATGGT GGGGGGCACC      120
TGTAATCCCA GCTGCTAGGG AGGCTGAGAC AGGAGAATCA CTTGAACCTG AAAGGTGGAG      180
GTTGCAGTGA GCGGAGATCG TGCCACTGCA GTCCAGCCTG GGTGACAGG CAAGACTCCG      240
TCTCCAAAAA AAAATTAAAA ATAGAAATAC ATTTTAAAAC CCAGATACTT GTAGCATATA      300
TAAGGGACAA TTGCAGTTTG GAAGTACTT CCACATGTAT TATATAATT TATTTTAA      360
AATGAATCTC ATTTGGTGT CATGAAATTT GGCAAGCTTC TCGAG      405

```

(2) INFORMATION FOR SEQ ID NO:1164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259-base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1164:

```

GAATTCGGCC TTCATGGCCT AGCAGAAGCG AGAGGAGGAG GAGAAGAAAG CGGAGTTCGA      60
GCGGCAGCGA AAAATTCGAC AGCAAGAAAT AGAAGAAAAA CTCATCGAGG AAGAAACAGC      120
ACGAAGAGTA GAAGAATTGG TAGCAAAAAG GGTGGAGGAA GAACTGGAGA AAAGGAAGGA      180
TGAAATTGAA CGAGAAGTTC TCGAAGGGT GGAGGAAGCC AAACGCATCA TGGAAAAGCA      240
GTTGCTCGAA GAACTCGAG      259

```

(2) INFORMATION FOR SEQ ID NO:1165:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1165:

```

GAATTCGGCC TTCATGGCCT AAATTCAGC AATACAGCTC TCACATACAT AAATTATAAA      60
ATAATTTTAT TTAAGGTGAT GAAATTTATA AGCAGGTTCA AAAATATAAT AAAA      114

```

(2) INFORMATION FOR SEQ ID NO:1166:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1166:

```

GAATTCGGCC TTCATGGCCT AGTCAGCAAC ACCCAACACT GTCTGTTTTT CATTIGTTGG      60
TTTTAATCAT AAAATTGTCA AGTGATTCGT GTTTGTACTT TATTTTTTTG TGCCTTCTGA      120
AAGGATCTAA AACAAAAATA TTTGCGCTTT TTTTCCCCAC GTGTATCTGA ACATTAGCA      180
GATTGGCTCA GACACAATGA AAAGGATAAT CCAATGTACG TGCTGGTGCA CTCTGCTAGT      240
TGTTATCTCT GTAGGGCTCA GGAAGCTGGA AGGAGGAAGG GAGGGTAAGT GGCCTGGTGA      300
GTGGAGGTGG CTCGAG      316

```

(2) INFORMATION FOR SEQ ID NO:1167:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1167:

```

GAATTCGGCC TTCATGGCCT AGGTACCAAT AATTTCTTCA CTCTTCAAC TGCTCTCTTC      60
AATTTGATTT CTGCTCTGTT CTGAGCATCT TCCACAGTGA TTAGTACATG TAAATCTTCA      120
TTTAGATGCT CCCAATTGGG CTGCGCTCTA TTTGCTCCT CCTTTTTTTT ATCCCTCATT      180
GAGCCTTTGC CTCGGACCAT GATTTTACAT CCGGTTTCTG CTTCAAGTTG TTTGGCTGTA      240
AGTCCTCTAG GTCCAAGGAT TCTCCCAACA AAATTAACT TCGTCCAGCA GCCGCTCGAG      300

```

(2) INFORMATION FOR SEQ ID NO:1168:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1168:

```

GAATTCGGCC TTCATGGCCT ACCTTCACAG AAAAATGCAT AGCTGGATGC TGCAGACTCT      60
AGCGTTTGCT GTAACATCTC TCGTCCTTTC GTGTGCAGAA ACCATCGATT ATTATGGGGA      120
AATCTGTGAC AATGCATGTC CTTGTGAGGA AAAGGACGGC ATTTTAACTG TGAGCTGTGA      180
AAACCGGGGG ATCATCAGTC TCTCTGAAAT TAGCCCCCCC GATCTCGAG      229

```

(2) INFORMATION FOR SEQ ID NO:1169:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1169:

```

GAATTCGGCC TTCATGGCCT AGTGCTGGGA GCGCAGCCGG CGGGCGAGGC TGCCTGGAAC      60
GTGGAGCTGC TGGAGCTGTC CGGCTGACCT GGAAAGTTCT TTGGCCTCTA GGCTTTACCT      120

```



```

GGAGGCCTCT TCCTTCAGCT CCTTGTTTTT CCGCACCTCC TCGGCGTGCT TGTCTTCTC 180
TTGCAGCCGT TCCAACATGG CGGCGAGGTG GGCCTCCCTG TTCTCCTGT TGGATTCCAT 240
CTTCTGGGCC AGTTTTTCCT TAGCCATCTT GATGAAGTTG TTGTTTTCTT CAATGGCCTT 300
TTGGATCACC TCTCTCTCAT GTTCCCGGAA TTCTAGACCT GCCTCGAG 348

```

(2) INFORMATION FOR SEQ ID NO:1170:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 81 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1170:

```

GGCTTTTCC AAATTGCTCT GGCTACCATA TAGAAAATTG ACTGAAGGAG GGCCAAGATG 60
GAAACAGAGA GGACGCTCGA G 81

```

(2) INFORMATION FOR SEQ ID NO:1171:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1171:

```

GAATTCTGAG GGAATAACTA CGACCATGAG ATTGGCAGTG ATTTGCTTTT GCCTATTGCG 60
CATTGCCTCC TCCCTCCCGG TGAAAGTGAC TGATTCTGGC AGCTCAGAGG AGAAGAAGCT 120
TTACAGCCTG CACCCAGATC CTATAGCCAC ATGGCTGGTG CCTGACCCAT CTCAGAAGCA 180
GAATCTCCTT GCGCCACAGA ATGCTGTGTC CTCTGAAGAA AAGGATGACT TTAAGCAAGA 240
AACTCTTCCA AGCAATTCCA ATGAAAGCCA TGACCACATG GACGACGATG ATGACGATGA 300
TGATGACGAT GGAGACCATG CAGAGAACGA GGATTCTGTG GACTCGGATG AATCTGACGA 360
ATCTCACCAT TCCGATGAGT CTGATGAGAC CTTCACTGCT AGTACACAAG CAGTCGAG 418

```

(2) INFORMATION FOR SEQ ID NO:1172:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1172:

```

GAAAACAGCA CTGCATGTCT TTGGCAAGCC ACAAGTTTCA TAGATACAGC TGTGCTCACT 60
GCAGAAAGCC TTTTCATAAG ATAGAAACAT TGTACCGACA TTGCCAAGAT GAGCATGACA 120
ATGAGATAAA GATTAAATAC TTCTGTGGGC TTGTGATCT TATCTTTAAT GTGGAAGAAG 180
CATTTTTGAG TCATTATGAG GAGCACCACA GCATAGATTA TGTATTGTG TCAGAAAAAA 240
CTGAAACTTC AATTAAAACC GAAGATGATT TTCCAGTAAT AGAGACCAGT AACCAGTTAA 300
CTTGTGGTTG CCGTGAGAGT TACATCTGTA AAGTCAACAG AAAAGAAGAT TATAGCAGAT 360
GTCTCCAAAT CATGCTGGAT AAAGGAAAAC TGTGGTTTCG CTGCAGTTTA TGTTCGGCAA 420

```

CAGCACTCGA G

431

(2) INFORMATION FOR SEQ ID NO:1173:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1173:

```

GAATTCGGCC TTCATGGCCT ACCCCTTAAA GGAAAGAATG GCTGCTCTAG AAGAAAAGAA      60
TGTTTAAATT CAAGAATCAG AAACCTTCAG AAAGAATCTT GAAGAATCTT TACATGATAA      120
GGAAAGATTA GCAGAAGAAA TTGAAAAGCT GAGATCTGAA CTTGACCAAT TGAAAATGAG      180
AACTGGCTCT TTAATGAAC CCACAATACC AAGAAGTCAT CTAGACAGCT CAGCTGAGTT      240
GCGGTACTCA GTGGGATCCC TAGTGGACAG CCACTCTGAT TACAGAACAA CTAAAGTAAT      300
AAGAAAACCA AAACTCGAG                                     319

```

(2) INFORMATION FOR SEQ ID NO:1174:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1174:

```

GAATTCGGCC TTCATGGCCT ACTTAATATA TTTGTGAGAT AATTATTGAG ACATTTTATT      60
AATATTTTAT TTAGTCTTAG AATTTAGAG AAAAGTGAAC CTAGAGAGGT ACTTCTCCTG      120
GTTCAAACCTG TGAACATGAA AATTCTGAAT TTAAGTAACT GGATCCTCGA G              171

```

(2) INFORMATION FOR SEQ ID NO:1175:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175:

```

GAATTCGGCC TTCATGGCCT AAGGAAACAA AAAGCTAAGG GCAAAATGTA CAACTTAGA      60
AGAATTGGAA GATAGAAACA AGATAGAAAA TGAAAATATT GTCAAGAGTT TCAGATAGAA      120
AATGAAAAAC AAGCTAAGAC AAGTATTGGA GAAGTATAGA AGATAGAAAA ATATAAAGCC      180
AAAAATTGGA TAAAAAGCA CTGAAAAAAT GAGGAAATTA TTGGTAACCA ATTTATTTA      240
AAAGCCCATC AATTTAATTT CTGGTGGTGC AGAAGTTAGA AGGTAAAGCT TGAGAAGATG      300
AGGGTGTTTA CGTAGACCAG AACCAATTTA GAAGAATACT TGAAGCTAGA AGGGGAAGGA      360
CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1176:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 222 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1176:

```
GAATTCGGCC TTCAGGCTTA CAAGAATTTT ATGCCATCCA AGAGTATTAG CACAAATAAA   60
TAAAGGCAAT TTGTAAATTT TTTCCCTGAA AATCTAAAAA ACAAGAAAAC TATCTCTTCA   120
GGGTGATTAT AATTAGGTCT ATGAGACTCT CAAGGTCCTT TTAGTGATTC AGAATCTATA   180
GTTGGAAATA CTTATTTTAA AATGTTTCAGG CAGTTGCTCG AG                222
```

(2) INFORMATION FOR SEQ ID NO:1177:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 367 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1177:

```
GAATTGTCCA CAGCCTGTCA TGCCGCACAA CTGTCCACGC TCGGTTCTCT CGGATATCAC   60
AGTACACTAC AAATGGCTTC AGGGGGCCAC TGCCATCAGG ATCAATGGTG AAGTTTCCAG   120
AAGTTTTCCC ACTGAGCCGA TAAGCCTCAC AGGATTCCTT ATACAAAGGT GTGTGGCAGG   180
TCTCTCCCTT GTAGCCCGTC AGTTTCGAGT AGCAAATGAA GTCATCCCAA GACTGGTACC   240
AGCGTCCATC ATGCTCACAC ATGTTAGGGC TGCACCTATC AGTGATGCCA CATGTATCAA   300
AGAGGACCTC AGCATAGAAT CCAAGCCGCC GGCCCTCCAC CAGAGTCAGG TTGACCAGTT   360
GACCGAG                                367
```

(2) INFORMATION FOR SEQ ID NO:1178:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 367 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1178:

```
GAATTTAGAA CGGGTACAAA AGGACCTAAG CCAAACACAG TGTCAAATGA AGGAAATGGA   60
ACAAAAGTAT CAAAATGAAC AAGTTAAAGT GAATAAATAC ATTGGAAAGC AGGAGTCTGT   120
AGAGGAGAGA TTGTCTCAAC TACAAAGTGA GAATATGTTG CTTGACCAAC AACTGGATGA   180
TGCCCAACAAC AAGGCTGACA ATAAAGAGAA GACAGTGATT AATATCCAAG ACCAGTTTCA   240
TGCTATTGTG CAAAACCTTC AAGCTGAGAG TGAAAAGCAA AGTCTTCTGC TAGAAGAAAG   300
AAATAAGGAG TTAATCAGTG AATGTAATCA CTTAAAAGAA AGACAGTATC AATATGAAA   360
TCTCGAG                                367
```

(2) INFORMATION FOR SEQ ID NO:1179:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 247 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1179:

GAAACCGAAA GTGGAAATGT ACTCTGGGAG TGATGATGAT GATGATTTTA ACAAACCTTCC	60
TAAAAAAGCT AAAGGGAAAG CTCAAAAATC AAATAAGAAG TGGGATGGGT CAGAGGAGGA	120
TGAGGATAAC AGTAAAAAAA TTAAAGAGCG TTCAAGAATA AATTCTTCTG GTGAAAGTGG	180
TGATGAATCA GATGAATTTT TGCAATCTAG AAAAGGACAG AAAAAAATC AGAAAAACAA	240
GCTCGAG	247

(2) INFORMATION FOR SEQ ID NO:1180:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 149 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1180:

GAATTCGGCC TTCATGGCCT ACGAGTTCTT CATGCTTGTT GTTGAGATTT GAGATGTTTA	60
TTGGTAACAT TGTCTTTTTT CCATCCTTTT TTTTCTTTCC TAACCTGGTT TCTTCCAGTG	120
CAACTGCAGA TAGAAGACCT GACCTCGAG	149

(2) INFORMATION FOR SEQ ID NO:1181:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 251 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1181:

GAATTCGGCC TTCATGGCCT AGAAAATTAA ACTGTTTTTT AAACCAGGTG TTCACTTTTC	60
ATTGATTTTT GCATAGTACT TGGTGAACCC TATTGATTTT TAGATTCAGG TAATTTTTCA	120
GTGTGAAAGA GTTTTTCTGT TATATCTTCA CTGTGATATC CATTCCATTC CCTTCTCAGT	180
TAATACTCAG TTTAGCTCTA GTATCTGTCT CTCAAATTAT GTTTAATTGC TTTTATCACT	240
TTGTCTCTCGA G	251

(2) INFORMATION FOR SEQ ID NO:1182:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 176 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1182:

```

GAATTCTAGA CCTGCCTAGA GTGCTCTGTG TATGCGGATG ATTTAGAATT GTCATTTCTC      60
TTTACTGGAT GTTTATTTAT AAAGATCTGG CCTGTTCCCTG CGTCTGCGGA GCGGCCCTTG      120
TCTCCCAGCT ATCTATAACC TTAGCTAGAG TGTGCGCTTG TGGGTTCCCT CTCGAG          176

```

(2) INFORMATION FOR SEQ ID NO:1183:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 410 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1183:

```

GAATTTAGAA TTCTTGACGG GTTCTCGGGG GTTCCTGTTG TATAAAGGCC TTCATTACTT      60
TAGTTATACC CAAGTGAAAG GGGCATTTAC CTCGTGACAA GTGGATTATA GGAGAAAAAG      120
AGGAGATGGT AGGTCAGAGT GTGCTTAGAA GTCATGCCCA GTGTTCTCAT CAATGCCAGA      180
CATTACGGGC TGGCCTTCCA TCAGCCATTC TACCTTTCTT CCTGCTAACA ATATCCCAAT      240
TTTGTTCAGG TATCAGGCCA CTTAATATGT TTCAGGGAAA ACTGGTTCCA GCCCAGAGCA      300
GTGTGGACCT TGATTACATC AACTAATCA TGGTGAGTCC ATTTTCCTTG CCAGAAATTC      360
GTTTAGGAGT GGACATGTAT TTCACTGTG AGTACACAAG ACGACTCGAG          410

```

(2) INFORMATION FOR SEQ ID NO:1184:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1184:

```

GGAAACAGAC AGTACCAAGG AAGAAGCAGC TAAGATGGAA AAGGAATATG GAAGCTTGAA      60
GGATTCCACA AAAGATGATA ACTCCAACCC AGGAGGAAAG ACAGATGAAC CCAAAGGAAA      120
AACAGAAGCC TATTTGGAAG CCATCAGAAA AAATATTGAA TGGTTGAAGA AACATGACAA      180
AAAGGGAAAT AAAGAAGATT ATGACCTTTC AAAGATGAGA GACTTCATCA ATAAACAAGC      240
TGATGCTTAT GTGGAGAAAG GCATCCTTGA CAAGGAAGGG CTCGAG          286

```

(2) INFORMATION FOR SEQ ID NO:1185:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 417 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1185:

```

GCGATTGAAT TCTAGACCTG CCTCACCTTA CCCAGGACT CCGCTATGAC ACCGCCTCTG      60
CCCCTACAAG ACACAGATCT CTCGTACGCC CCAAAGCCTG TGGCTGCAGC CACGATTGTG      120
TCCCAGCAGG CTGAAGAGGG CCTCACCTTA CCCAGGACT CCGCTATGAC ACCGCCTCTG      180
CCCCTACAAG ACACAGATCT CTCGTACGCC CCAAAGCCTG TGGCTGCAGC CACGCCTGTG      240

```

```

TCCCAGCAGG CTGAAGAGGG CCTCACCTTA CCCCAGGACT CCGCTATGAC ACCGCTCTG 300
CCCCTACAAG ACACAGATCT CTCGTCAGCC CCAAAGCCTG TGGCTGCAGC CACGCTTGTG 360
TCCCAGCAGG CTGAAGAGGG CCTCACCTTA CCCCAGGACT CCGCTATGAC ACTCGAG 417

```

(2) INFORMATION FOR SEQ ID NO:1186:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1186:

```

GGAAGGGGCT TTTACAACCTT CCTTTTGTTC CCAGGCGTTA GTATCTCTGC TTGGTATAAG 60
ATACCACTAT TCCTAGGAAA GGCCTTGAAA AGAGGGACAG ATACAAGCCT CTCTGAAAA 120
ATCTATGCTT TTCTTACCTC TACCAAGTAA TAGCAAACAT GAAAATGGTA AAGATCTTTA 180
CAACATTGTG CTCTGTACAT ATAAAACGTT TAAACACATG CGCAAAGATG GAGCAAAATA 240
TCATAGAAAA TAATCTCGAG 260

```

(2) INFORMATION FOR SEQ ID NO:1187:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1187:

```

GAATTCGGCC TTCATGGCCT ACAAGGAAAT GCCCAAGGAA AAACGTGAGC TTCAGTTTCG 60
GCGAAAGGTC TTAGCAGTCA CAGACTCACC TGCCAGGAAG GGCAAGGACT CTCCTCTTAA 120
GCAGAGCCCT GGGGAGTCCA CGAAGAAGCA GGATGGCCTA GTCCAGATTG CACCAAACCT 180
GACTGTGATC CAGTTCATTA AAGTCTTCCC CAGGGTGCTG CTGCAGACCC TACGCCACCC 240
CATCTTCCTG CTGGTGGTCC TGTCCAGGT ATGCTTGTC TCCATGGCTG CGGGCATGGC 300
CACCTTCCTG CCAAGTTCC TGGAGCGCCA GCTCGAG 337

```

(2) INFORMATION FOR SEQ ID NO:1188:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 537 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1188:

```

GAATTCGGCCT TCATGGCCTA CGAGGCGTCA CTGATCTTAA CGAGACTTCC AAATCGTCTC 60
AGCAGGGGCT CCAGACTTCC CCAGCAGGCG GCAGGTTTCC TGTCATGCTT TCGCCTTCCT 120
TCTCATATAC ACCAGTGCTA GAGTTCATCA TGTGTCAAAA TTGTATCTTG CTCTTGTGTT 180
TCAAGATGAT CTAATAGTTG TCTTATCTCA GCATCATACT CCACCCATTC TGGGACAATT 240
CTGGCAGCAG CTTTGTAGTTT GGATTCTTTT GTTTTGGGAT TATTGCACAG ATCAATTGTT 300
TTGGCCCTCC TTGGAATAAC CACATACAAA TATGAATCTG GCTGCAAGAA CAGGATATCC 360

```

AGGTAAGTAG AGAGTGGGCA TTGATAAAAA TATCTGGTGG AGAAGCCTAG GATTTCAACT 420
 TTTTGTGAGA GGATTCCTGT TGGGACAGCT TTACCAGAAA AGAATAATAG CGGATATGTT 480
 CATCCAAACT AAGAACTTTC ATGCATCTTG CATTGTTACA TAGCCTGTGG ACTCGAG 537

(2) INFORMATION FOR SEQ ID NO:1189:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1189:

GAATTCGGCC TTCGTGGCCT AATGAATTC TAGACCTGCC TCGAGGATTC AATTAGGCCA 60
 TCGAG 65

(2) INFORMATION FOR SEQ ID NO:1190:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 398 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1190:

GAATTCGGCT TCATGGCCTA ACTTTATGTC ATAAACTGA TTAAATAAT CTTGAAATGG 60
 CCATTAAGGA AGATCAGATT GCAGATAACT TTCAAGGAAT ATCAGGTCCT AAAGAAGACA 120
 GCACAAGTAT AAAAGGTAAT TCAGACCAGG ATTCTTTTCT TCATGAGAAT TCGTTACACC 180
 AAGAAGAGAG TCAAAAAGAA AATATGCCTT GTGGGGAAAC AGCAGAAATT AAACAAAAGC 240
 AAAGTGTTAA CAAAGGAAAA CAAGGAAAGG AGCAAAATCA GGACTCACAG ACAGAGGCAG 300
 AAGAGCTACG CAAACTTTGG AAAACCCATA CTATGCAACA AACTAAACAG CAAAGGGAAA 360
 ATATTCAACA AGTGTCAACA AAAGAAGCTA AACTCGAG 398

(2) INFORMATION FOR SEQ ID NO:1191:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1191:

GAATTCGGCC TTCATGGCCT AGCCATTGTT TATACATTAT TGCTGTCAGT ATTCACCAAG 60
 ATGGTGCTAT TACCTGTTGT GGGGCAATTT TCCTTGTCAT TTCTACATAT CTTGGAACAG 120
 CTTTGTCTCT TATATTTTCA AGAATGTTCT AAAGCAGACA GCCTTGAGG AGAGACAGAT 180
 AGTGACTCCC TCCAGGGAAA AAGTCGGATT TGTGTGCTCC CCTGCCTCGA G 231

(2) INFORMATION FOR SEQ ID NO:1192:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1192:

```
GAATTCGGCC TTCATGGCCT AACTAACCG CAGCATGGCG GATCTGAAGC ACAGCAGCTT    60
GCGGTACGAG CTCCGAGCAG ATCTGGAGGA AGAAAGAATG CGGCAGAAAA TAGCAGAAAAG    120
GACCTCAGAA GAAACAATAC GCATTTACTC TTTGAGACTG TTTTGAACT GTATTGTTCT    180
GGCTGTTTGA GGGGCATGCT TTTATGCAAT ATACGTAGCA ACTGTCTTCT CGCAAGAGCA    240
CATGAAAAAG GAAATCCTCG AG                                     262
```

(2) INFORMATION FOR SEQ ID NO:1193:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1193:

```
GAATTCGGCC TTCATGGCCT AGAGGAAATT GCTAATGTAA CAGAGACATC AGATCCAGAA    60
TTCCAACGAA CCTGAATGAG CCCTGGTGTG GAACAGCCGT GAGCCTGTCC ACGTTTTTCT    120
CCTGATCTCT GCTTTTCATT AGTAATGAAT TTCCAATCCT TCTCCCCTTT CATGACAAAT    180
CAGTACAGTG AATGTAATTG CCACATCCAG CGATGCATCA TCTTCCCACT TTTCTAGGCT    240
GCAGAGAAGG AAGCAGCCCT TGTGCAGCAA GAAGAAGAAA AGGCTGAACA ACGGAAAAGA    300
GCTCGGGCTG AGAAGAAAGC GTTAAAAAAG AAGAAAAAGA TCAGAGGCCC AGAGAAGCGC    360
GGAGCAGATG ATGGACTCGA G                                     381
```

(2) INFORMATION FOR SEQ ID NO:1194:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1194:

```
GCGATTGAAT TCTAGACCTG CCTCTCTTAC CCTGGCTTA CTAATATATT CTTAGTGGCA    60
TTTCATTGG TGGTACTGGT GGCGCATTCA AACAGGACAC TTGTATCTGA GTGAGCAGCT    120
GGAGCAGTAA GAATGACAAC ACTTGGTCTC TGCAGATTGG CTGGACCCAC CACTCTGGTG    180
CTAGTGCTGG CTTGGTGGCT GAGGGAACAA GCAGGAAGTA GAAGAGGAAA TGAGATGTGG    240
GTGGAGTGGG AAGAGAGGAC AGATTGGGA GGGGAGGGAA AGTGCAAACT CGAG          294
```

(2) INFORMATION FOR SEQ ID NO:1195:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1195:

GCGATTGAAG TCATTGCCAC GCCTACTAGT TTGCACTAAA GGAAAGTCAG TTTGGTATGA	60
ATTACAATGG CCAACGTTAC ATTCTCCTCC GTTTTGT TTTT TTTTAA TCTCAATTTC	120
TCTTACTTTT CTTATTCCCC CTATGCTGAT GCCAATCAGT TTCTTTTGGG AAAGTTTAA	180
CAGATCGGTT TTATGTTTGG AAGTACAGCA AGTATTTCAT CCTCTCTTAA AAATACAAAA	240
CCCAGAAACC CAGGAGCTCG AG	262

(2) INFORMATION FOR SEQ ID NO:1196:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1196:

GAATTCGGCT TCATGGCCTA GACCGTCTCA AAGAAAACAC ATATACCTTT TGCTCAGATT	60
ATTGTAAAT TTTACCTCAT TTACTTTATC AATTGCTCTT TCTCTATTTA TGTGTATCAG	120
ATTATTGTTA AATGTTACCT TATTGCTT ATCAATTGCT CTCTTATGT ATGTTTGTGT	180
GTACTGTTGC ACATGCAAAT GCACACAAAT ATATGTTTCT GAATTTTTTG AGAGTAGATT	240
GCATACATTA TGGGACCTGC CTCGAG	266

(2) INFORMATION FOR SEQ ID NO:1197:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1197:

GAATTCGGCC TTCATGGCCT AAGAAACACT TTTAAAAATC TTCTACTAGT TATTTTGTAC	60
ATAGATAAGA TAGTTGATTC CCAGCTTTTA TCTGTAAAGT TGTCATAATT GGAATTAACT	120
TCGGTGATTC TGTGTATATA AACATTGTTA TATTTT TAGG TGTGTGCGGA TTTTAGGCAA	180
ACAAGAAAAT ATTAGAGTGA TGCAATTGGC TTGTTCAG GGGATGCTCG AG	232

(2) INFORMATION FOR SEQ ID NO:1198:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1198:

```

GACCTTTACC ACTAAGTGA GCCAACTTTA GCACCTTGCT AATGAATCTG GGTCCCTGAGA      60
ATTGTGCAAC ACTGCTGCTC TTTGTTTTAC TTGAGAGTAA AATTCTGCTG CATTCTCTTA      120
GGCCAGCTGT CTTGACTGGG GTAGCTGAAG CTGTTGTAGC TATGATCTTT CCATTTTCAGT      180
GGCAATGCCC ATATATTCCC CTTTGTCTC TTTCACTGGC TGCAGTGCTT AGTGCACCTT      240
TACCATTAT AGTTGGAGTT GACTCAAGGT ATTTTGATCT TCATGACCCA CCAAGGCTCG      300
AG                                                                                   302

```

(2) INFORMATION FOR SEQ ID NO:1199:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1199:

```

GCCACTGCTC CTGGCCAGGA CTCTCTTATT AGGTTTGACA TTTCAAGAGT TTAGAAATTA      60
CCTTCCAGAA TTCACAGGTA AAAGCCAGAC CTCTCCTTGG TGAAGATACA ATTCTTTACA      120
ATTTTACAAT AGTTAAGTAT ATTTTATCAG TCTATATTGG CTGTTTAGTT GACAAACCGT      180
TAAAAATTGG TGACAGTCCA GATGTGGTCA CTCATGCCTC TAATCCTCGA G                231

```

(2) INFORMATION FOR SEQ ID NO:1200:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1200:

```

GAATTCTAGG CCTGACCCAG CCCCCATGGC TTCAGAAGAG CTACAGAAAG ATCTAGAAGA      60
GGTAAAGGTG TTGCTGGAAG AGGCTACTAG GAAAAGAGTA CGTGATGCCC TTACAGCTGA      120
AAAATCCAAG ATTGAGACAG AAATCAAGAA CAAGATGCAA CAGAAATCAC AGAAGAAAGC      180
AGAACTTCTT GATAATGAAA AACCACTGTC TGTGGTTGCT CCCATCACTC TCGAG          235

```

(2) INFORMATION FOR SEQ ID NO:1201:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1201:

```

GAATGAGAGG TCAGAGTATT CCATTGCACA CGCACCTTGG GGCTGACAGA CTTGTGCCCC      60
CTAGCCTTCA TGCATGCCCA AGCACTGGCA GCTTTGCAGC CCCTGCCCCA CGACTCGAG      119

```

(2) INFORMATION FOR SEQ ID NO:1202:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 366 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1202:

GATTGAATTC TAGACCTGCC TCGAGATTCT TTGAGCACTT TCCCCCATCC CCAGGGCCAC	60
AGATCCCCTT CCTTACTTGT TGGGGGGAGG TCTGGAGCAC CTCGCCAATG CCCTTCCCCC	120
ATCGGGCTGG GTCCTTCCAG TTATTTATTT GTGTATTAT TTATTATCT ATTTATTATT	180
CTATTTAATC TCTTGGCCTC ACCCAGGGAC CGTCTGGCTT CCCCAGCTGG ACTGGGAGGT	240
CAGGAAGCCA GGAAGGAGA GGGACAGCAC AGGCCACAGA GGGCTGCCCC CACCACACAC	300
ACCCCGCGT CTCGGGAGAA ACCCACCTC TTCAGAGCCT GCACTCGCTA AGGAAGGGGA	360
CTCGAG	366

(2) INFORMATION FOR SEQ ID NO:1203:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 342 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1203:

GGTGAGATGG AAAAGGAGTT TCCTGAGCTT ATCCGAAGTG TTGGTTTACT TACGGTAGCT	60
GCTGACTCTA TCTCTACCAA TGGCAGTGAA GCAGTTACTG AGGAGGTATC TCAAGTATCT	120
CTCTCAGTAG ACGACAAAGG TGGATGTGAG GAAGACAATG CTTCTGCAGT CGAAGAGCAA	180
CCAGGCTTAA CACTGGGGGT GTCATCATCT TCAGGAGAAG CTCTGACAAA TGCTGTTCAA	240
CCCTCCTCTG AGACTGTGCA GCAAGAATCC AGTTCCCTCT CCCATCATGA TGCAAGAAT	300
CAGCAGCCTG TTCCTTGTA AAATGCAACC CCCAACTCG AG	342

(2) INFORMATION FOR SEQ ID NO:1204:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 645 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1204:

GAATTCGGCT TCATGGCCTA CGTCTTTCTA ACTATCTATG GGGTGGAGCT GTTCCTGAAG	60
GTTGCCGGCC TGGGCCCTGT GGAGTACTTG TCTTCCGAT GGAAGTTGTT TGACTTCTCC	120
GTGACAGTGT TCGCCTTCCT GGGACTGCTG GCGCTGGCCC TCAACATGGA CCCCTTCTAT	180
TTCATCGTGG TCCTGGGCCC CCTCCAGCTG CTGAGGTGT TTAAGTTGAA GGAGCGCTAC	240
CGCAACGTGC TGGACACCAT GTTCGAGCTG CTGCCCCGGA TGGCCAGCCT GGGCCTCACC	300
CTGCTCATCT TTTACTACTC CTTGCCATC GTGGGCATGG AGTTCCTCTG CGGGATCGTC	360
TTCCCCAACT GCTGCAACAC GAGTACAGTG GCAGATGCCT ACCGCTGGCG CAACCACACC	420
GTGGGCAACA GGACCGTGGT GGAGGAAGGC TACTATTATC TCAATAATTT TGACAACATC	480
CTCAACAGCT TTGTGACCCT GTTTGAGCTC ACAGTTGTCA ACAACTGGTA CATCATCATG	540
GAAGGCGTCA CCTCTCAGAC CTCCCACTGG AGCCGCTCT ACTTCATGAC CTTTTACATT	600
GTGACCATGG TGGTGATGAC GATCATTGTC GCCTTTATCC TCGAG	645

(2) INFORMATION FOR SEQ ID NO:1205:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1205:

```

GAATTCGGCC TTCATGGCCT ACAGTACACA AGTGCTAGCC CTAGCAGCTC GCGATGTGCT      60
TCAGCAGAGC AGACGCTGCG GATAACTACC CTTTGGAAAC ATGTCAACAG AGGAAACTTT      120
TTCTCACTT CCATCCCCCG AATTGATTG GGAACAAGTT TGTCCCTCTT AGGGGATCAC      180
CCCACAGAGG GCCTGGGTGT TATTTTTCAG ATGGATATGG CTTGGCATA CACTTATCTA      240
AGATCCCAAC CAGTATAAAA GGATATACTT TGGGAGCCAG AACAGCTGTG AGGTTTAAGC      300
CAATACAGAA GGAAATGACA CCTCATGCAG GCAGGT                                336

```

(2) INFORMATION FOR SEQ ID NO:1206:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1206:

```

GGAAATCTG AACAAACAAC CGAATAAGCA GTGGAAGAAA TCACAAACAT CTACAAATCC      60
AAAAGCTGCT CTCAAGTCTA AGATAGTTGC TGAATTTCGA TCTCAGGCC TAATTGAAGA      120
GCTGTTGCTA TACAAGCGCT CAGAAGATCA GATAGAACTG AAGGAAAAGC AGTTGTCAAC      180
TATGAGGCTG GATGTGTGCA GCACAGAAAC TCTCAAATGC TTAAGAGATA AAACAGGTGG      240
GAAGAAGTTC TCCAAAGAAT TTGAAGAGGC AAGCTCCAAG CTGGAAGAAT TTGTGAATGG      300
ATCACTCGA                                309

```

(2) INFORMATION FOR SEQ ID NO:1207:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1207:

```

GAATTCGGCC TTCATGGCCT ACAGCTTTTG AGCGGAAACC TGAAAGAAGG TTTGCAGTAT      60
CTTCAGAGTC TGAATTTTGA GCGGATAGTG ATGAGCCAGC TAAATCCCCT GAAGATTTGC      120
CTGCCCTCAG TGGTTAACTT TTTTGCTGCA ATCACAAATA AGTACCAGCT CGTCTTCTGC      180
TACACCATCA TTGAGAGGAA CAATCGCCAG ATGCTGCCAG TCATTAGGAG TACCCTGGA      240
GGAGACTCAG TGCAGATCTG CACAAACCG CTGGACACCT TCTTCCCCTT TGATCCCTGT      300
GTGCTGAAGA GGTAGGTACT TTAAACGTT GACATCTCGA G                                341

```

(2) INFORMATION FOR SEQ ID NO:1208:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 588 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1208:

```

GAATTCGGCC TTCATGGCCT ANCGAGCGGC AGGTGTGCAC AGAGGTNCTC CACTTTGTNT      60
TCTGAACTCG CGGTCAGGAT GGTTTTCTCT GTCAGGCAGT GTGGCCATGT TGGCAGAACT      120
GAAGAAGTTT TACTGACGTT CAAGATATTC CTTGTCATCA TTTGTCTTCA TGTCTNCTG      180
GTAACATCCC TGGAGAAGA TACTGATAAT TCCAGTTTGT CACCACCACC TGCTAAATTA      240
TCTGTTGTCA GTTTGGCCCC CTCCTCCAAT GGTACTCCAG AGGTTGAAAC AACAAGCCTC      300
AATGATGTTA CTTTAAGCTT ACTCCCTTCA AACGAAACAG AAAAACTAA AATCACTATA      360
GTAAAAACCT TCAATGCATC AGGCGTCAAA CCCCAGAGAA ATATCTGCAA TTTGTCATCT      420
ATTTGCAATG ACTCAGCATT TTTTAGAGGT GAGATCATGT TTCAATATGA TAAAGAAAGC      480
ACTGTTCCCC AGAATCAACA TATAACGAAT GGCACCTTAA CTGGAGTCCT GTCTCTAAGT      540
GAATTAAAC GCTCAGAGCT CAACAAAACC CTGCAAACCC TACTCGAG      588

```

(2) INFORMATION FOR SEQ ID NO:1209:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1209:

```

GAATTCGGCC TTCATGGCCT ACAAGGATAG AATTCATTCC ACCTATATGT ACTTAGCAGG      60
GAGTATTGGT TTAACAGCTT TGTCTGCCAT AGCAATCAGC AGAACGCCTG TTCTCATGAA      120
CTTCATGATG AGAGGCTCTT GGGTGACAA TGGTGTGACC TTTGCAGCCA TGGTTGGAGC      180
TGGAAATGCTG GTACGATCAA TACCATATGA CCAGAGCCCA GGCCCAAAGC ATCTTGCTTG      240
GTTGCTACAT TCTGGTGTGA TGGGTGCAGT GGTGGCTCCT CTGACAATAT TAGGGGGTCC      300
TCTTCTCATC AGAGCTGCAT GGTACACAGC TGGCATTGTG GGAGGCCTCT CCACTGTGGC      360
CATGTGTGCG CCCAGTGAAA AGTTTCTGAA CATGGGTGCA CCCCAGGGAG TGCTCGAG      418

```

(2) INFORMATION FOR SEQ ID NO:1210:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1210:

```

GAATTCGGCC TTCATGGCCT AGGTTGCAAC TGCCACGCAG CAACTGCCAC GCAGAAAAAG      60
GAGGGGTTGA AAAGGGAGTA GCTTCTGATA TTCAGAAGCT ATTGGAAGAG ATGCTCAAAG      120
AAGAAAAAAT TACCATAATC CAATAAGAA GAAGACCTGA GATCCAGGAA GCAGATGATC      180
TGAAGTGCAG AGAAAGTTCA GGAAAGTTCC CTCATTATG ATGATGGGAA ATAACAGTAA      240
ATTCTGTACA GCAGTCTTGG ACAACAACCA ATCTAAACTG GCACAGTGCA GAGGCAATCA      300
ACAGAGAACA TAATATTGAT AGAATGCCTG ACGCTTTTGA TTCTATTAC AGGAAACATA      360

```

AACAATTGGA AAACCTCGAG

379

(2) INFORMATION FOR SEQ ID NO:1211:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1211:

```

GAATTCGGCC TTCATGGCCT AGAAACAGGG TATTATTTAT CCTCTTAGCA TATGTTTTGT      60
AATGATTCTG TTACATCAGA GCTTCTGTTG ATGAGTGCCA CTAAAGTGAG ATTGTTGATG      120
AGGATTGGCC TTATTTTTTT GTGGTCTCTAT TCAATACTTG CCACAGCATT TATTTTCTAA      180
AACATTCTTA CGGTCTATAC TTATCAGTGT CTGATCACAT GCAGGCACTG GTCAAGGTGG      240
AGCATGGTCG AGGCGTTCTT ACTGATACAA ACTCGTGCCT TCTCTTGAC ACAAGGAGCC      300
CATGTTCTGG TTAACCTCTG GTTCATTTAT TTCACTTGTC ATGCATCGCC TCTATCTTCT      360
CCCTTTATTG CGTCTCTGAG

```

(2) INFORMATION FOR SEQ ID NO:1212:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1212:

```

GAATTCGGCC TTCATGGCCT AGTGAAGGGT ATTGGTGGTG TTTTTCCTCC TTTACCTCTC      60
ATTTGGGCAT TTAAATAGAG GAGGCCAACT TCATTTACTC CTGTTTAGTA AATCTAAATG      120
AGTGTAGGTT TTAAATTAGA TTTTTCCTCA AAACCTTCA GAAGGTCTAG TATTAGGGCA      180
GTTGATAAGT AAGTGAAGC ACCTTGGGCA GGACCCAGTG ACCTGTCCTT TACTTATTA      240
CAGCACCTGC ACGGGAAGCA GATCTGGAGG ATGAAATTTA ACCTGTTACA GTGTGTGTAT      300
GTTTTAGGGT GTGTGTTTTC CGAATACTGT GGGGAGTTCC CTTTTCCTT CTCCCATGAT      360
GGATTCCTTT GTCTTTCTAG AGATACCATA GGAGGATATC TGGATTTTTC ACCTAAGGCA      420
GTGTCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1213:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1213:

```

CTCGAGTCTC TCCTGTTAAT CTCCTATTTA TAAAGGATC ATGAGGCTGC CAAGTGCTAA      60
AAATGGAGAT GGTCTAGTAA CTAGAAACT CCCACCCCA GGGAGCACAC CTACGTATGT      120
CCCTACAACC TAATAATGTG ATGTGTTTTG GAACACAGAC ATTAGAAGTT CATGAAGTTT      180
TAACTGTTGA TTCTTTCCCA AGCATCATCA AGTTATGATT TAGGCAATGT ATGATTGAAA      240

```

TGCATTCATT CATCAGCAT AGGCACAATC ACAGAAATAT TGCACAAAAT ATGTCCTGA	300
CTGAAACTGA GAGGTACAAA AACGTATTTT ACTCTTCGTA AAGAAGTTT TGAGGAAATA	350
CAACTCTGCG ATCGTATAGA CATGTTTCT GATAATACAC TGACATTCAC AAACAGTAGG	420
CCATGAAGGC CGAATTC	437

(2) INFORMATION FOR SEQ ID NO:1214:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1214:

GAATTCGGCC TTCATGGCCT AAAAAGAAAT GATGTTTTCT CTCCAACAGT GTGTTTTTAT	60
TTCTTTCATC TACCTGTCCA GTAATCATTT TAAAAAAGAA AATAGCATTG GTTACTGCCT	120
GTGTGATGTG GCCCCGGCTT ATCTGCACTC TCCCTCCTGT TTAAGTTTCC AGCCACCTCA	180
GCTTTTTCTC TGTTCCTCTA GCATGGCAAG CTTATTCCTG CCTCATGACT CTTTCGCATG	240
GTGTTTTCAG ATTTTCTCTG TAGCACTCTG CAGCATTGT CCACCTAAAC TCGAG	295

(2) INFORMATION FOR SEQ ID NO:1215:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1215:

GACCTGCCGC GAGTGTGTT GATAGCTTGC TCAAGATCAC ACAGCTAGTA GGTAGTGAGG	60
CTAGGATTTA GACTTAAGTA GTTGGTTGTA GAGTCCACGT GTTTAACCAT TACACTACTT	120
TGATAACAAT ATCATTATTA TTATTATCTT TTTTTTTTTT TTGATACAAA GTCTCACTTT	180
GTGCCCCAGG CTGGAGTGCA GTGGCATAAT CATGGCTCAC TGCAGCCTCG AACTCCTGGG	240
CTCAAGGGAT CCCCCCACTC TCGAG	265

(2) INFORMATION FOR SEQ ID NO:1216:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1216:

GAATTCGGCC TTCATGGCCT AAAAGAAGGA GCGCGAGAGA AAAAAGCGAG ATGAAGAAAA	60
AGCGAAACTG CGGAAGCTGA AAGAAAAAGA AGAGTTAGAA ACAGGTAAAA AGGATCAGAG	120
TAAACAAAAG GAATCTCAAA GGAAATTGTA AGAAGAACT GTAAAATCCA AAGTGACTGT	180
TGATACTGGA GTAATTCCTG CCTCTGAAGA GAAAGCAGAG ACTCCACAG CTGCAGAAGA	240
TGACAATGAA GGAGACAAA AGAAGAAAGA TAAGAAGAAA AAGAAAGGAG AAAAGGAAGA	300
AAAAGAGAAA GAGAAGAAA AAGGACCTAG CAATGCCACT CGAG	344

(2) INFORMATION FOR SEQ ID NO:1217:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1217:

```

GAATTCGGCC TTCATGGCCT AGCCATTATT AAGACCTGTG ACAAAAACTA TAGACATGAT      60
GCAGTGAAGA TTCTGAAACT CAAGCCTGTG CTGCAGAGAA GTCTCACTCA CCCTCCTACC      120
ATAGCCCCAG AGGGGTCCAG ACCCCAGGGT GGTTCGCCA GCAGCAAGCT AGACAGTGGA      180
TTTGCCAAGA CATCTGTTGC TGCTTCTCTA TACCACACAC CCTCTGACTC CAAGGAAATT      240
ACTCTTACTG TTAATTCAAA GGACCCTGAA AGACCTCCTG TTCATGACCA ACTTCAGGAC      300
CCACGACTGC TGAAGAGGAT GGGCATTGAG GTCAAAGGAG GAATATTCTT TTGGGATCCA      360
CAACCCCTCGA G                                     371

```

(2) INFORMATION FOR SEQ ID NO:1218:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1218:

```

GAATTCTAGA CTCCCGCGCG TACTCGGCCG CCTGAGCGAT ACTAAAATGT CTGATGATGC      60
TGGTGACACC TTAGCCACTG GAGACAAAGC AGAAGTTACT GAGATGCCTA ATAGTGATTC      120
TTTACCTGAG GATGCAGAAG TGCATTGTGA TTCAGCTGCA GTTTCACATG AGCCAACACC      180
AGCTGACCCC AGAGGGGAGG GGCAATGAAA TGCACTGTG CAGGGTGCGAG GGGCTGCCGC      240
CATTGGGCCC CCTGTGCAGC CTCAGGATGC CAACGCCCTG GAGCCCCCTC TCAATGGAGA      300
CGTGA CTGAG GATACACTTG CTGAATGTAT TGATTCCTGG AGCCTCGAG      349

```

(2) INFORMATION FOR SEQ ID NO:1219:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1219:

```

GAATTCTAGA CCTGCCTCTC CTGCACTTC CTTGTGTTT CTCTGTGACC GGCCTCTGTT      60
CCCACCACCC TTTTGGAAGT GCTGTCCTGA TGGTCACCAG TGCTTTCCTA ATAGCCAAAT      120
TCAGTGGCCT GTCCTCAAGC TCCCCGAAT TCCTTGCCCA CACAGATCAA CCTCTAAGTC      180
CTGGGAAGTC CCTCCTTTGT GATTGTGAGG CGCTGTGTGC TGCAGGCTCT GCTTTTCCCT      240
CCCATCACCC CATGGTTCTT CCTTCTCCTC TGACCCCTCC CTCTCCATT TCTCCACAG      300
CTCTGTCCAC AGCCACAATG TCCATAGGAG CCTGCCACAC CCTTTATCCA ACTGCAGCCT      360
CAACCCACCT GCAAAGGACC CCTGAACTCG AG                                     392

```


(2) INFORMATION FOR SEQ ID NO:1220:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 598 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1220:

```

GCAAGCTACT TCTTCAACAG CTGTATCTGC TTCAAAGCCG ACTGCCTCTC CTTCAGCAT      60
TGCAGCAAAC AATTGTACTG TGAATACGTC ATCAATTGCA ACGTCTTCAA TGAAGGGTCT      120
TACGACTACA GGAAACTCGT CTCTTAATAG CACATCTAAC ACTAAAGTAT CAGCAGTGCC      180
TACAAATATG GCTGCCAAGA AAAACATCTA CCCCCAAAAT AAATTTTGTT GGTGGTAATA      240
AGCTGCAGTC NACAGGAAAT AAAGCAGGAG ACCTTAAAAG GGACCCGAAT GTGTTAAAAG      300
TAATCCTGTC ATTTCTGCTG TGCAGATTCC TGAAGTAAAG CAAGACACAG TGTGAGAACC      360
AGTCACACCT GCATCTCTTG CTGCTTTACA GAGTGATGTG CAGCCAGTGG GCCATGATTA      420
TGTGGAAGAG GTACGAAATG ATGAAGGAAA AGTAATTCGG TTCCATTGTA AATTATGCGA      480
GTGCAGCTTT AATGATCCCA ATGCTAAGGA GATGCACTTA AAAGGGCGAA GACACAGACT      540
TCAATATAAA AAAAAAGTAA ATCCAGATTT GCAAGTAGAA GTAAAGCCAA TACTCGAG      598

```

(2) INFORMATION FOR SEQ ID NO:1221:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1221:

```

GAATTCGGCC TTCATGGCCT AGAGGAGTCC TGTCAGTTCTG TTCTCTGCTG TGTCCTCAAG      60
ACCATGAATC ATGGCTGGCA TGTAGTAGGC ATTTAATAAT ATATGTTCAA CAAGTATTTG      120
GCAGTCTTGG AGGGCAGAAA AGGAGGTGGG GAAGATTTT AAATAACATT TTTTAAAAAG      180
TCACATTGTC CTACAATACC GATTTTCTT GCATATTTAG GAAATTGAGG GTTTTTTCT      240
AAAACATGCG GACATATGGG AAATAGGATG CAACATTTGC ACTAATGTTT CAGACACAGT      300
TAGAGGTTTC CAAGAGATTT TGCGCTGGGT CACTCGAG      338

```

(2) INFORMATION FOR SEQ ID NO:1222:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1222:

```

GCTCGAGTGA CATGGAACT GAGGTCTTAG AGACACGTGT AATGGAGAGG AGAGGAATGG      60
AGACCTGTGC GATGGAAACC AGAGGGATGG AAGCAAGGGG CATGGATGCA AGAGGATTGG      120
AGATGAGGGG CCTGTCCCC AGTTCAAGAG GCCCTATGAC TGGTGAATT CAGGGTCTTG      180
GTCCCATTA TATAGGGGCA GGTGGCCCTC CTCAGGGACC CAGACAGGTC CCAGGCATTT      240
CAGGGGTGGG GAATCCTGGA GCTGGTATGC AGGGTACAGG CATACAAGGA ACAGGCATGC      300

```

AGGGAGCAGG CATACAAGGA GGAAAAATGC TCGAG

335

(2) INFORMATION FOR SEQ ID NO:1223:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 534 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1223:

```

GAATTCGGCC TTCATGGCCT AGGTACAGAC TGAACCCAGG AACCCGGGTA TCTGCGTCCT      60
GAGTCCCAGC GCCCACCAGG ACTGGGGCCT CCTCACATCT ACTCTGAGGA CAGAATCTAT      120
TGGCAGAGTC TTCCTTTTGG TTTGGGATGC TGGGTTTGAG AACATGCGG GAACCAAGAG      180
TCGTGACTAA TCCAATTTTG AGCGCTTGAG GACCAAGTGG AAAGAAACTC AAGCAGATT      240
AAAGTGACCA ATGTCTGGTT ATGCCCTTGA GCCCCTGCAG AAGCAAAACA TAATTTTGTG      300
TGTTGTGTGA CAAATACATT TGTATTCCAG ATCTCACAGA ATTCCTACA CAAAGAAAT      360
TGCAAGGAAA ATGCACATTG CACCCTAAAA ATTAACAAGG AAAGAAGGTA CCAGGAGCAA      420
CAACTCATTA ACAGGAACAG AAACAATATT GCAAATATTT CAGATGCAAA GTGTATCCGA      480
CTTATAATAC AACTGTCCCT ACTGTGTCTA AAGAAATGAA AGGCAATCCT CGAG          534

```

(2) INFORMATION FOR SEQ ID NO:1224:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1224:

```

TCACGAATGG CCCACAGGGA TCAGGAATGG TATGATGCTG AAATTGCCAG AAAACTGCAA      60
GAAGAAGAAC TTTTGGCTAC CCAGGTGGAC ATGAGAGCCG CTCAAGTAGC TCAAGATGAA      120
GAAATCGCTC GACTTCTAAT GGCTGAAGAA AAGAAAGCTT ACAAAAAAGC CAAGGAGCGG      180
GAGAAATCAT CTTTGACAAA AAGAAAGCAA GACCCCGAGT GGAAGCCAAA AACAGCTAAA      240
GCAGCAAATT CCAAGTCAAA AGAGAGTGAT GAACCTCACC ATTCTAAGAA TGAAAGGCCA      300
GCACGGCCAC CACCACCTAT CATGACAGAT GGTGAAGATG CGGATTCTCT CGAG          354

```

(2) INFORMATION FOR SEQ ID NO:1225:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 488 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1225:

```

GCAACAAAAC AAAACAAAAC ACACTTATGG TAACCCATTC TGTTGAGGAG TCCAAAACCT      60
GAATAAAGCG CCTCATTGCC TTAACTGGT TCTGTGGCAG TGAGATCATC ATCCTTATGC      120
TGGCTCACCT AGTGTCTCTC TCTCTCTCCC GTTTTCTCTC TCCCTCTCTT ATCCCCTTGA      180
CTCTCCCCAC TTCTCATCTT CTCTTTAGAT TATGTGGTAG CTATCCTCAA GAGCTCATAG      240

```

```

TGCCTGCCTG GATCACTGAC AAAGAAGTGG AAAGTGTATC AAGTTTCAGG TCCTGGAAGC   300
GCATCCCTGC CGTCATCTAC AGGCACCAGA GCAATGGAGC TGTCATTGCC CGCTGTGGAC   360
AGCCAGAGGT TAGCTGGTGG GGCTGGCGAA ATGCAGATGA TGAGCATCTG GTACAGTCAG   420
TAGCCAAAGC TTGTGCCTCT GACTCCCGAT CGAGTGGCAG CAAGCTGTCA ACTAGGAAAC   480
GACTCGAG                                     488

```

(2) INFORMATION FOR SEQ ID NO:1226:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1226:

```

GATCCCCACC AAAACAGGAA AAGAAGTGCT CTCGTGCAGG GCTTGTTTAC AGTGAGCCTG   60
GCTGGCTCCT CATGATCTCT GAGTTTAAAA TGTGCCAGCA GATGATTTTA ACGATCCCCAT   120
CAAAAATTGT TGTCTGGATC AGTTTCGAGC TAGCGTTTCC TTGCAGAGGC CATTCTTCCT   180
TTTTTGACAA AAGTTGGGTC GGCCAGGTGC AGTGGCTCAT ACTTGTGATC CACCTGCCTT   240
GGCCTCCCAA AGTGCGGGGA TTCTAGGCAT GAGCCACCAC ACCCTGCCAG AAAAATGGAT   300
TAAAAAGAG AATTACAAAG TACTCGAG                                     328

```

(2) INFORMATION FOR SEQ ID NO:1227:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 527 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1227:

```

GAATTCGGCC TTCATGGCCT AAAATTTTTA AAAAATATTT ATAATGATAG TTAGAGAACT   60
GTTTATATGA GGATCAGACA TTGTTTCAGC ACTGGATCTC CTCTGTCCCC TCTCTTGCTA   120
CAGCATACAG CCCAGAGACA CACATGTAAA AGTAGATGAT CTCTGTAAAC TTCAGCTGCA   180
TTTCTGTATG TGTAGGATTG TCCTANTATC AGATATCCTT TGAGAAAGAG TTGGAGAGGC   240
ATGGAAGGAA GCATATTCCT GACCTCCCCC CTTTTTAGCT AAAGATACAA ATTCAGAGCT   300
GTTTGAAAAG GGCTTAGAAT AATATTAATT AAACATATTC TATAATACAA AGAGAAGTAC   360
TTTTTTAAAA TACATTTATT TTTCTTTCTT TTTTAGCAGG CATTTCTGAC AGAAAATCTT   420
TAGGGCCAAT TAGAGTTTCT TTCTGACTTT TAATTGCCCT CTGCCTTTTG GGAAAGTGTT   480
GAAAAAAGCT CTGGAAAAAA ATATGCTGGT CAAGGTCGCA ACTCGAG                                     527

```

(2) INFORMATION FOR SEQ ID NO:1228:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1228:

GAATTCGGCC	TTCATGGCCT	AAGAAAACAG	CCTAGAATTA	AACCTCCAAG	ATGAGTGTGA	60
GATGAAGCCT	TTCCACCTAT	CCCAACAAGG	TTTAAAAAAA	ATAAAAACTA	GAATGGGGCT	120
ACTACACAAC	AGCCCTTTGC	CCCACCCAAG	GCTCATTCCC	TAGAGGCAAG	TGTACGAGTT	180
TATTCTCCT	TGAAATTATT	TCCATATCTC	CAAATAGTGT	TTATACCACT	CAAGGCAGAG	240
ATAGCAATTT	GCCTACCCAG	TATACATTTT	CCCTCGAG			278

(2) INFORMATION FOR SEQ ID NO:1229:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 603 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1229:

GAATTCGGCC	TTCATGGCCT	AGCCACCTTG	AAGCTCTCAA	ATATCACTGT	TGTGAATACA	60
GAGAGGGAAA	ACCAACTGTA	ACGTGCCACC	CAAATTTT	CAGATTAATA	CATCATTCAT	120
CAGACTTCAT	TCGTGATCTC	GAAGAGTGAC	ATCAGTCTTC	CTTGGAATAT	GAAGAGAATT	180
TCCTTGTTT	TTCTTTTGCA	TTTCTATTG	ATTTATTTTA	TTTTATTTTA	TTTTATGTTT	240
TTTGGTACAG	AAAGCTCATT	ACTAGTCCTG	TCCAGCAACG	TGCCTCTCCT	GGCCCTAGAG	300
TTCTTGGA	TAGCCAGGC	CAAAGAGAAG	GCCTTTCTCC	CCATGGTCAG	CCACACGTTT	360
CACATGCGCA	CAGAGGAGTC	TGATGCCTCA	CAGGAGGGCG	ATGACCTACC	CAAGTCCTCA	420
GCAAACACCA	GCCATCCCAA	GCAGGATGAC	AGCCCCAAGT	CCTCAGAAGA	AACCATCCAG	480
CCCAAGGAGG	GTGACATCCC	CAAGGCCCCA	GAAGAAACCA	TCCAATCCAA	GAAGGAGGAC	540
CTCCCCAAGT	CCTCGGAAAA	AGCCATCCAG	CCCAAAGAGA	GTAACATCCC	CAGAGCCCTC	600
GAG						603

(2) INFORMATION FOR SEQ ID NO:1230:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1230:

GAATTCGGCC	TTCATGGCCT	ACCGGGCAGT	TAGGCCCAAG	CGCCGGGTTC	AGGCCTCCAA	60
AAACCCCCTG	AAAATGCTGG	CGGCAAGAGA	AGATCTCCTT	CAGGAATACA	CTGAGCAGAG	120
ATTAAACGTT	GCCTTCATGG	AGTCAAAGCG	GATGAAAGTA	GAAAAGATGT	CTTCCAATC	180
CAACTTCTCA	GAAGTCACCC	TGGCGGTTT	AGCCAGTAAA	GAAAACCTCA	GCAACGTCAG	240
CCTGCGGAGC	GTCAACCTGA	CGGAACAGAA	CTCTAACAAAC	AGCGCCGTGC	CCTACAAGAG	300
GCTGATGCTG	TTGCAGATTA	AAGGAAGAAG	ACATGTGCAG	ACCAGGGTGG	TGGAACCTCG	360
AG						362

(2) INFORMATION FOR SEQ ID NO:1231:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 468 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1231:

GAATTCGGCC	TTCATGGCCT	AGTCCCTGTT	CAATTCTCT	CAGCCTCAAT	ATCTTTTACT	60
TTAAACTAGG	TAGGGTTACC	AGTTCAATGA	TCTGCTCATT	AAATACTTAC	TATACCTTAG	120
GTACTATATG	AGAAGCTAGG	AAAAGAGTGA	TGAAAAAGAC	ACACCTAGAG	AGGGCATTGG	180
ATTATTAAAT	CAGCAGCTAC	TGTAAGGTA	TTTAAGTTCT	GTGACAGGCA	GCATTCTGGG	240
TATCACAGGA	ACATCTTACA	AGAATTCTA	ACTTCAGGAG	GAGGGTTCAG	AGAATTAGCC	300
AGGCCAGGGG	TGAGAGTGTT	CTTCCCGGAA	GAGGGAACAA	TGAAGACCCA	GGAGGAGATA	360
CAGAGTATCT	CGCTGTATTT	AAAATAACCA	GAAATAGATT	TATATATTTA	GTACAGAGGC	420
TGAGGGGAAG	AGAAGTGAGT	GTGAGAAGAT	CAAAAGGAGA	AGCTCGAG		468

(2) INFORMATION FOR SEQ ID NO:1232:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1232:

GAATTCGGCC	TTCATGGCCT	ACAATCATCT	CAAACAGTTC	CGGGTTGCTG	CCCTTTTGGC	60
TTTCCTAGGT	GCTACAGTAG	CAGGCTGTTT	TCCCCTTTTC	CATAGAGGGG	AATATTCTGC	120
ATCACCCCTT	TGTTTGCCAT	TTCTACAGG	TGAAACGCCA	TCATTAGGAT	TCACTGTAAC	180
GTTAGTGCTA	TTAAACTCAC	TAGCATTTTT	ATTAATGGCC	GTTATCTACA	CTAAGCTATA	240
CTGCAACTTG	GAAAAAGAGG	ACCTCTCAGA	AAACTCACAA	TCTAGCATGA	TTAAGCATGT	300
CGCTTGGCTA	ATCTTCACCA	ATTGCATCTT	TTTCTGCCCT	GTGGCGTTTT	TTTCATTTCG	360
ACCATTGATC	ACTGCAATCT	CTATCAGCCC	CCCCTCGAG			400

(2) INFORMATION FOR SEQ ID NO:1233:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1233:

GAATTCGGCC	TTCATGGCCT	AGGATATAGA	CCAAACCCAA	ATCCTGTTGG	ACAAGGGATT	60
AGACCACTTA	TGGCTGGATG	CAACAGTTCG	GTAGGCGGCA	TGAGTATGTC	GCCAAACCAA	120
GGCTTACAGA	TGCCGAGCAG	CAGGGCCTAT	GGCTTGGCAG	ACCCTAGCAC	CACAGGGCAG	180
ATGAGTGGAG	CTAGGTATGG	GGTTCCAGT	AACATAGCTT	CATTGACCCC	TGGGCCAGGC	240
ATGCAATCAC	CATCTTCCTA	CCAGAACAA	AACTATGGGC	TCAACATGAG	TAGCCCCCA	300
CATGGGAGTC	CTGGTCTTGC	CCCAAACCAG	CAGAATATCA	TGATTTCTCC	TCGTAATCGT	360
GGGAGTCCAA	AGATAGCCTC	ACATCAGTTT	TCTCCTGTTG	CAGGIGCGCA	CTCTCGAG	418

(2) INFORMATION FOR SEQ ID NO:1234:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1234:

GAATTCGGCC	TTCATGGCCT	ACGCCTCTTT	AACACATGGG	CCTTTGTGTG	GACACCATCT	60
TTCCCTGAAA	CCTGTCTGCA	TCTTTTCTGT	CCCTTCTAAC	CATCCAGTTT	GTTCTTCCCC	120
AAGATGGGCT	GCCACAAGTT	GCCATTTCTT	GACTGGTGCA	TGTTTCCAGA	CAGCTCGCGG	180
GCAGACACAG	GGAAGGAATC	TTATCTCGTT	TTTGTTTTTT	TGTTGTTGTT	TTTGTTTTTT	240
TCTTTTTTGT	TGTGTTGTT	GCTGTTGTT	TGAAACGGAG	TCTCACTCTG	TGCCAAGGC	300
TGGAGTGCAG	TGGCGCAATC	TCGAG				325

(2) INFORMATION FOR SEQ ID NO:1235:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 395 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1235:

GAATTCGGCC	TTTATGGCCT	AAAAAAAAAA	AAAGAAAGAA	AGAAAATGTT	GGATATAGTA	60
GGTCTGAGCT	TTATGGAGAA	AGAAGGTTTG	AAGTAGCTTC	TGGGATATGG	AAAAAGAACT	120
TATGAGAGAA	ACAGACTTCT	GGGAATCCTT	CAAGGACTAG	AAGAGAACAT	AGATTATGAA	180
AGAATGAGTC	ATTGATCAGT	GATGTTGTAG	ATTAGAATAG	TTGGACAGTT	AGGATTGCT	240
AGGCAGAAGA	ATGGAGGAAG	TCACGGCCTA	GGGAGTTAAC	AGTGTTAGGA	GCAAGAGAGG	300
TTTAACTAA	TGAGCCATGG	AGTTTAAGCA	GAGACAATAG	AGAATAAAGT	AAAATAGGAA	360
GAAAAATTA	AAAAGAAAGT	AGAAAAGTCC	TCGAG			395

(2) INFORMATION FOR SEQ ID NO:1236:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 565 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1236:

GAATTCGGCC	TTCATGGCCT	ACACAATTCC	AAAGAAGGTG	GTGTGCCACT	TCAGTGGGAA	60
GGCCTATGCC	GACGAGGAGC	GGTGGGACCT	TGACAGCTGC	ACCCACTGCT	ACTGCCTGCA	120
GGGCCAGACC	CTCTGCTCGA	CCGTGAGCTG	CCCCCTCTG	CCCTGTGTGT	AGCCCATCAA	180
CGTGGAAGGA	AGTTGCTGCC	CAATGTGTCC	AGAAATGTAT	GTCCCAGAAC	CAACCAATAT	240
ACCCATTGAG	AAGACAAACC	ATCGAGGAGA	GGTTGACCTG	GAGGTTCCCC	TGTGGCCAC	300
GCCTAGTGAA	AATGATATCG	TCCATCTCCC	TAGAGATATG	GGTCACCTCC	AGGTAGATTA	360
CAGAGATAAC	AGGCTGCACC	CAAGTGAAGA	TTCTTCACTG	GACTCCATTG	CCTCAGTTGT	420
GGTTCCCAT	ATTATATGCC	TCTCTATTAT	AATAGCATTC	CTATTATCA	ATCAGAAGAA	480
ACAGTGGATA	CCACTGCTTT	GCTGGTATCG	AACACCAACT	AAGCCTTCTT	CCTTAAATAA	540
TCAGCTAGTA	TCTGTGACGC	TCGAG				565

(2) INFORMATION FOR SEQ ID NO:1237:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1237:

GAATTCGGCC TTCATGGCCT AACTGAGAA CGAGATGGCT ATTTATGAAT TCATTCATAA	60
CTTTGTGGAA GTTTTAGATG AGTATTTCAG CCGAGTGAGT GAATTAGATG TATCCTTTTT	120
CAATACTGTT TTCCACAGTA CTTGGCAAAT GCACTCTGGT CCTTATCAGG TAAGTACCAC	180
AAGGCAGGAA AACTATTTCAG CAGAGTCCAG AGTGTTCATC ACCAACAACAT ATGACAAGAC	240
AGCCAGAGGT GTGTGTGTTC TGCAGAACTC CTCCCCAACT TCGTCACCCA AGCTCGAG	298

(2) INFORMATION FOR SEQ ID NO:1238:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 303 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1238:

CTCGAGTGGG GGGAGGGAGG GGGAGGAGAG AAGGGGAGGT GGATGGGGGA GGGGGACAGT	60
GGAGGAAGAG GGAAGAGGGA GAAAATAAGG AGAAAGAGAA GGAAGGCCAG AAGGGGAGGG	120
GAAGGGGGAA GGGGAAGAAC AAGGGGAATG GGAAGAGAAT GAAGTGGGAG AGAAGAGGAA	180
GAGTAGGAGG AGAAATAACA AAAGGCACCA GGTGGGAAAG GAAGAATTTA AAATATATTT	240
ATTGCAAAC GACATTATCC TATAGTGAAA AATCCTTAA AGTTAGGCCA TGAAGCCGAA	300
TTC	303

(2) INFORMATION FOR SEQ ID NO:1239:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 315 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1239:

GAATTCGGCT TCATGGCCTA CTCTTCTCTG AGACAGAAAA CTAGCGAACC CCAGGGGAAG	60
GTGCGGTGTG GAGAGCACTT TCGGATTCGG CAGAATCTAC CAGAGCACAC CCAAGGCTGG	120
CTTGGGAGCA AATGGCTCTG GCTTCTTTT GTTGTGTGC CGTTTGTGAT ACTGCAGTGT	180
CAAAGAGACA GTGAGAAGAA TAAGGAGCAG AGTCCTCCTG GCCTTCGAGG CGGCCAACTT	240
CACTCTCCAT TAAAGAAAAA AAGAAATGCT TCCCCAACA AAGACTGTGC ATTCAATACC	300
TTAATGGAAC TCGAG	315

(2) INFORMATION FOR SEQ ID NO:1240:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 553 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1240:

GAATTCGGCC	TTCATGGCCT	AAAATGACCT	TGGTAAGAAT	GGGTTTTTAC	AATAAATGAA	60
TTTTTAATTC	CAAGATGTTT	TTTCATTGAA	ATTACTGCCC	CAGTTGCATT	AAAAGTGTGG	120
CTGTGCAAAG	CTTCCTTCTA	CCAGGCTTCA	TGTGCAGGAC	CTTGGTTTTT	GTTGCCTTGG	180
CAATTC AAAA	AGCAGGTGTT	GAAAGAGAAG	AAGACAGGAA	AAAGAAGATG	GGAGAAAAAT	240
TTTCCAAATC	AGAGTTCTCA	GTCCAAGGAC	TTATTCTTGG	GGGTTCAAAA	ATTCTAACAG	300
TATTTT TAAA	TTGCCTCTAT	TTCGATGGTT	ACTTGATTAA	ACTGTTCTAA	CATTTCTAAA	360
AATAAAAAATT	TGCAATGATA	ACTTTTATAT	CAGACTTTAC	CTCTGTTTCC	CAAATTGGAA	420
TCTTTAGGAA	TATTTTTTGG	AGATCACTTT	TTTCCTTTT	TTCTTTAACA	AAGATTGGGA	480
ACCGCTCTTA	GGAACAGACA	AATGGATTTC	CATATTCTCT	AAAGCGTTGA	AGTAAATCTC	540
TGCCACCCCTC	GAG					553

(2) INFORMATION FOR SEQ ID NO:1241:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1241:

GAATTCGGCC	TTCATGGCCT	ACTCTTCTCA	AGGCTTTGAA	ATCTCCCTT	GCACTGAGAT	60
TAGTCGT CAG	ATCTCTCCCC	GTCTCCCTCC	CAACTTATAC	GACCTGATTT	CCTTAGGACG	120
GAACCGCAGG	CACCTGCGCC	GGGCGTCTTA	CTCCCGCTGC	TTGTTCTGTC	CCCTCCCTCG	180
GACCAAACAG	TGCTCATGCT	TCAGGACCTT	GTTTGTGCGAA	GATGTTGGTT	TCCCTTTCTC	240
TGTTATTTAT	ATAAAAAATAA	TTTATCAAAA	GGATATTTTA	AAAAAGCTAG	TCTGTCTTGA	300
AACTTGTTTA	CCTTAAAAAT	ATCAGAAATCT	CAGTGTTTGA	AAGTACTGAA	GCACAAACAT	360
ATATCATCTC	TGTACCATT C	TGTACTAAAG	CACTTGAGTC	TAATAAATAA	AGAAATCAGC	420
ACCCCTAGGC	CATGAAG					437

(2) INFORMATION FOR SEQ ID NO:1242:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 523 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1242:

GAATTCGGCC	TTCATGGCCT	ACAAAAATAT	GTCTTTTGAA	AACCNAGTCA	AGTACCTAGA	60
GATGAAAACC	ACAAATGAGA	AACTGTTACA	GGAATTAGAT	ACACTTCAAC	AACAATTGGA	120
TTACAGAAAC	ATGAAAAAAG	AGAGCCTGGA	AGCAGAAATA	GCTCACTCCC	AGGTGAAACA	180
GGAGGCGGTA	TTGCTGCATG	AAAAACTTTA	TGAGTTGGAG	TCCCATCGAG	ATCAAATGAT	240
TGCAGAAGAC	AAAAGCATAG	GATCTCCAAT	GGAAGAGAGA	GAGAAATTAC	TTAAGCAGAT	300
TAAAGATGAT	AATCAGGAAA	TAGCCAGCAT	GGAAGACAG	TTAACAGATA	CAAAAGAAAA	360
GATAAATCAG	TTTATTGAAG	AAATTAGACA	ACTTGACATG	GATTTAGAGG	AACACCAAGG	420
TGAAATGAAC	CAGAAATACA	AGGAGCTAAA	GAAAAGGGAG	GAACATATGG	ACACTTTTAT	480
TGAGACTTTT	GAGGAAACAA	AGAATCAGGA	ACCAAACTC	GAG		523

(2) INFORMATION FOR SEQ ID NO:1243:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1243:

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GAATTCGGCC TTCATGGCCT AACTGATTAC AGGGAAAGAC AAAAAGCAAA AGGTGATTGA      60
AACATAGTTC TAAATAACAA GAAGGGAAGT TTTCTTAAAC TGATCATCTG TCTTATTGTC      120
ATGACAAAGG GTAAAATTTT ATTTTCAGTC CTTTAGTGCT TTTTAATAAT TCACCATACA      180
TATTTTACTT ATATCCCATT AACTGTGGGA CTTAGCACAG TTTACATTTT CAGTCATGTG      240
AATATAATTA TCTGTATTCC CTGTTGGACT GATGGGGGAA ATTGGATCAT TATATAATTT      300
AAAAGACACC TCCCCAGGCA CCCATTGTGT TCTTAGGAAG TCAGTGCTCG AG              352

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(2) INFORMATION FOR SEQ ID NO:1244:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1244:

```

GAATTCGGCT TCATGGCCTA ATTCAGCTTT ATCGTTCCCT CTGGCAGTTC AGTTGTTGGC      60
CCAGATTTAT TAAGGTTTCA CAGAAAGCAA CTGAAATCTC CCTTAGAAAT AAAGTTCCTG      120
GTGTGAAGAA AAAAAAGATC CATAAAAGT CTCATCCTTA GGACAGCAAC TTTTATAATG      180
CACAGCTGAT CTGAATAGCT CTCTGGATTG TGGCCTTGGA CAACAGTTCA GACTGCATTA      240
TTGAGTATGA ACCTTGAGCT TTCTGAGTCT CTTCTTTTGT CTCCTTTACT AGCAGACCCT      300
CTCGAG                                     306

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(2) INFORMATION FOR SEQ ID NO:1245:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 591 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1245:

```

GAATTCGGCC TTCATGGCCT AGGGTTTGGG GGTTCCTGAGA TGTTACTCTC ACTGAAGTCT      60
GTGTGGGAGG CGGATTACTA AACAAGAAAT TGCTAATTAA TCTCCAGATG GCAAGGAATG      120
GATAAAGCAC TGTTCCCAAC AAGGTCCAAA TGTCTCCGCT GGAAGAGTGT ACAATGGATG      180
CAGTTGGTCT TCCTGCTGGC AACAGTACCA CCGAAGCGCT TGGGGCAAGT TCCAAATCCA      240
GTAACCTTCT TTTATAATCT TCTTTGGTAA ATTCCCTCCT GGGAAACATG GTTGCTAACG      300
AAAAATTACC GTAAGTGTG CCAACAGTCT GTGCAGCAAA CTGCCCTTGCC TCTTCTAGAG      360
GAGCATCAGA AGGGAAGTGA TTTGTAAAGG AAGAACCATC AGGAAGACGG AATTGAATTC      420
TTGCAACAGT GCTTCTTTCT CTTGCATAAG ATTCCCTCTT GACTTCCATT TCTGCCTGTT      480
TTGCTAGCAA GGCAGCAGCT TTGGCAGCCT CTAATTCTTC CTTTGTCTTT GCAAAACGAG      540
CAGCTCTCTC TGCACGGTCC AATGCAATCT GCTGTTTAT ACGTTCTCGA G              591

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(2) INFORMATION FOR SEQ ID NO:1246:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 593 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1246:

```

GAATTCGGCC TTCATGGCCT ACTTCGGGGA AGAAACCTTC ACCAGAGTGG AGCAGTTCAG      60
ACCATGGAAC CTCTGATCCA AGCAGCCCAG CTCCTGCAAT TAAAGAAGAA AACCCAGGAG      120
GACGCAGAGG CTATCTGCTC CTTGTGTACC TCCCTCAGCA CCCAGCAGAT TGTCAAAATT      180
TTAAACCTTT ATACTCCCCT GAATGAATTT GAAGAACGGG TAACAGTGGC CTTTATACGA      240
ACAATCCAGG CACAACCTACA AGAGCGGAAT GACCCCTCAGC AACTGCTATT AGATGCCAAG      300
CACATGTTTC CTGTTTGTGT TCCATTTAAT CCATCTTCTC TAACCATGGA CTCAATCCAC      360
ATCCCAGCGT GTCTCAATCT GGAATTCCTC AATGAAGTCT GAAGATGCAT GTTTCAGCA      420
TTAGTTTGAT TCCCAATGTG AGCAAGAAGG AAGTATATAC AGTAAAGTAA ATTCAAGGAT      480
CTGTTAAATC TGGTAAAAGT AGATCAAATC AGAGATTGAC AGCCTGTGGA GGGTGCTGAA      540
CTATACAGAA TTAGACACAA CTATGTCATT ATTTTGTGTA CCAACTACTC GAG              593

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(2) INFORMATION FOR SEQ ID NO:1247:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 599 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1247:

```

GAATTCGGCC AAAGAGGCCT AAATCAGAA TGGTGCTACT TGAAGACTCT GGATCTGCTG      60
ACTTCAGAAG ACATTTGTGC AACCTGAGTC CCTTCACCAT TACTGTGGTC TTACTTCTCA      120
GTGCCGTGTTT TGTCAACAGT TCTCTGGAG GAACAGACAA GGAGCTGAGG CTAGTGGATG      180
GTGAAAACAA GTGTAGCGGG AGAGTGGAAAG TGAAGTCCA NGAGGAGTGG GGAACGGTGT      240
GTAATAATGG CTGGAGCATG GAAGCGGTCT CTGTGATTG TAACAGCTG GGATGTCCAA      300
CTGCTATCAA AGCCCTGGA TGGGCTAATT CCAGTGCAGG TTCTGGACGC ATTGGATGG      360
ATCATGTTTC TTGTCGTGGG AATGAGTCAG CTCTTTGGGA TTGCAAACAT GATGGATGGG      420
GAAAGCATTG TTGCAATCAC AATGAAGATG CTGGCGTGAC ATGTTCTGAT GGATCAGATC      480
TGGAGCTAAG ACTTAGAGGT GGAGGCAGCC GCTGTGCTGG GACAGTTGAG GTGGAGATTG      540
AGAGACTGTT AGGGAAGGTG TGTGACAGAG GCTGGGGACT GAAAGAAGCT GAATCGAG      599

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(2) INFORMATION FOR SEQ ID NO:1248:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1248:

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GAATTCGGCC AAAGAGGCCT AACCGAATGG ATTATCTGTG GGAGTAACAT CTCAGAAGAC      60

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TATGAAGCTA	ATTCCTGCCT	CAAGACACAG	AGCTACACAA	AAGGTGGTTA	TTGGAGATCA	120
TGATGGGGTA	GTTATGTGCT	TTGGCATGAA	GAAAGGAGAA	GCAGCAGCAG	TGTTCAAGAC	180
TTTACCCGGG	CCGAAGATTG	CAAGGCTGGA	ACTGGGAGGG	GTTATCAACA	CACCTCAGGA	240
GAAAATTTT	ATTGCTGCAG	CATCTGAGAT	TAGAGGCTTC	ACAAAAAGAG	GAAAACAGTT	300
CCTCTCCTT	GAAACAAACC	TCACTGAAAG	CATTAAAGCT	ATGTATGTCT	TTTGTTCCT	360
TTTGTATTTT	TACATACTTA	TTTATAATAT	TTTGATAGA	TGTGAGGCAA	CCCTCGAG	418

(2) INFORMATION FOR SEQ ID NO:1249:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 800 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1249:

GAATTCGGCC	AAAGAGGCCT	AGCAGAGCAC	AGCATCGTCG	GGACCAGACT	CCTCTCAGGC	60
CAGTTGCAGC	CTTCTCAGCC	AAACGCCGAC	CAAGGAAAAC	TCACTACCAT	GAGAATTGCA	120
GTGATTGCT	TTTGCTCCT	AGGCATCACC	TGTGCCATAC	CAGTTAAACA	GGCTGATTCT	180
GGAAGTTCTG	AGGAAAAGCA	GCTTTACAAC	AAATACCCAG	ATGCTGTGGC	CACATGGCTA	240
AACCCTGACC	CTTCTCAGAA	GCAGAATCTC	CTAGCCCCAC	AGACCCTTCC	AAGTAAGTCC	300
AACGAAAGCC	ATGACCACAT	GGATGATATG	GATGATGAAG	ATGATGATGA	CCATGTGGAC	360
AGCCAGGACT	CCATTGACTC	GAACGACTCT	GATGATGTAG	ATGACACTGA	TGATCTCACC	420
AGTCTGATGA	GTCTCACCAT	TCTGATGAAT	CTGATGAACT	GGTCACTGAT	TTTCCACGG	480
ACCTGCCAGC	AACCGAAGTT	TTCACTCCAG	TTGTCCCCAC	AGTAGACACA	TATGATGGCC	540
GAGGTGATAG	TGTGGTTTAT	GGACTGAGGT	CAAAATCTAA	GAAGTTTCGC	AGACCTGACA	600
TCCAGTACCC	TGATGCTACA	GACGAGGACA	TCACCTCACA	CATGGAAAGC	GAGGAGTTGA	660
ATGGTGATA	CAAGGCCATC	CCCGTTGCC	AGGACCTGAA	CGCGCCTTCT	GATTGGGACA	720
GCCGTGGGAA	GGACAGTTAT	GAAACGAGTC	AGCTGGATGA	CCAGAGTGCT	GAAACCCACA	780
GCCACAAGCA	GTACCTCGAG					800

(2) INFORMATION FOR SEQ ID NO:1250:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1250:

CAATTGCCAA	GGAAACAGGC	CTTGGCCTGA	AGGTACTAGG	AGGAATTAAC	CGGAATGAAG	60
GCCCATTGGT	ATATATTTCAG	GAAATTATTC	CTGGAGGAGA	CTGTTATAAG	GATGGTCGTT	120
TGAAGCCAGG	AGATCAACTT	GTCTCAGTCA	ACAAGGAATC	TATGATTGGT	GTATCATTTG	180
AAGAAGCAAA	AAGCATAATT	ACCGGAGCCA	AGTTGAGTAC	TAGGTTAGAA	TCTGCTTGGG	240
AGATAGCATT	CATAAGACAA	AAATCCGACA	ACATTCAGCC	AGAAAACTCG	TCATGTACAT	300
CACCTATAGA	AGCTTCAGGA	GAATATGGAC	CTCAAGCCTC	CCTCGAG		347

(2) INFORMATION FOR SEQ ID NO:1251:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1251:

GAATTCGGCC TTCATGGCCT ACAGCCCTCT TACTAGGCCA GCACGCTTTC GCTTTTGCAT	60
TTACAATCAC ATACCCCATC CCCTCCACTT GAAAAAGAAAT TTTGTTTTTG TCGTTATCCA	120
AAAATCTCAT CTAAATCAA CCGTCTCGTC TCCCTGTAGC TTCATTACCA TCTCAGAAGC	180
AGCAAAGGAG CCAGCAAAAG CTAAGGTACA GAAAGTCGCT TTGGAGGATG ATGGTGAGTG	240
GTTATACTTA ATAGAAGCTA TCATTATTA AGCACCTAAT GTGTGTCTGG AGGGGCTCGA	300
G	301

(2) INFORMATION FOR SEQ ID NO:1252:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1252:

GAATTCGGCC TTCATGGCCT TGCATGCCCA CAGTGAGCTG AGATCGCAGC ACTGTACTCC	60
ATCCTGGGGG ACAGAGCTAG ACTCCATCTC AAAAACGAAA GTGCCTGGTC GTCTTTCCAC	120
ACGACTCCGT TTCCACTCCC ATAAATGCT ACGTTAGCTG TTTTGAGGGT AGATGCCCTT	180
AGACTGCCAA CTCACAAAGT TTTATTGGGC ACCTGTTACC TGTCAGCAG AGATTTGTAA	240
AAAAAGACAC ATCAGGTGGC CTTTGCTTGC AAGAAATCAG CCTTGGAAC CTGTGGAGAA	300
AAGTTAAATA CTGCGTACTG TGCAAATGAA GGTGGGAGC TATTGAAGGG AAGAGATTCA	360
CCCTGAAAAC CCAAGATGG CCAATCTCG AG	392

(2) INFORMATION FOR SEQ ID NO:1253:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 610 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1253:

GATTCGGCCT TCATGGCCTA GCTGGTCTCT GGTGCGAGGA TCGAATCGCC CCCAGCAGTA	60
TGTGTATATG CATCAGATAA GGTGAGGGAC AACCTTCCTC ACCCCCATAC CTGGCCAGCC	120
TGTAATGGGG AGGAGGCCTT TCTGTGGTGT GGTGGGGCTG GAGATTGGGC AGGGACAGAG	180
ACATACCTTC TCTGGGAATC TGAGAGAGAT ACCTTGAATC TAGGGGAAAG GGATTAGGTT	240
TTGAAAATGT TAGCCATTTT GTAAAGAGAA GTCCCTCACC ATTTCCCTTC CCATTAGTCC	300
TGGGAAATAG ATTGGGTAGA GGCTCAGAGC CTGGCCCCTG CTGCACTCCC AGCTTGGAGC	360
TACTGGGTTG TTGACAATGT TTTGGGGTTT CCAGGCCCTTA GCAAGAGAAA GCCTCCCCAG	420
ATACCACTCT AGGGGTAGAT GAAGGGGGCA GGAGCCCTGA AGGAAGGATT TGGGGCGGGC	480
CATTCAATCA TTCAGAAACA CTTATCATCC CTTATCAGAA GCCCTGACCT ATTGAGAGTC	540
AGGCACGTGC TATTGAGAGT CAGGCACGTG CTCATATAAA GATGAGTTTA ACATGGATCT	600
CCCTCTOGAG	610

(2) INFORMATION FOR SEQ ID NO:1254:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1254:

GAATTCGGCC	TTCATGGCCT	AGAGGATTTA	CACATGGCAT	TCAGTGTTCT	GTATAGATCT	60
GCCTACCTTT	GTGAATTCAT	CTGTTAACCC	CTCTTCCTTT	GAGAGAGCAC	CGGCGATGGT	120
GGTTAACTCC	TGTGTTTTCT	CTCTCTCCTA	CTGGTTATTG	TTGAATTAAG	CACAGACTCG	180
TCAGCTCGGT	TGCTTTATCA	TGAATAATGT	GTGTGACCTT	GCAGTTCTTC	CACAGTTCAG	240
CAACAAGTG	CTAGCTTCAC	TGACCAAAAA	TTAAGGAAGG	AAAACACAGT	TTTTAAACG	300
ATCCATCTTT	TACAGCCGA	AACTCGAG				328

(2) INFORMATION FOR SEQ ID NO:1255:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 488 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1255:

GAATTCGGCC	TTCATGGCCT	ACTAAGAGAA	CAATTAGAAT	ATTGGAAGAT	AAAGGGACAA	60
GTACTGAATT	AGTTAAAGAA	AATCAGAAAC	TTAAGCAGCA	TTTGGGAAGAG	GAAAAGCAGA	120
AAAAACACAG	CTGTCTTAGT	CAAAGGGAGA	CTCTGTTGAC	AGAAGCAAAG	ATGCTAAAGA	180
GAGAACTGGA	GAGAGAACGA	CTAGTAACTA	CGGCTTTAAG	GGGGGAACTC	CAGCAGTTAA	240
GTGGTAGTCA	GTTACATGGC	AAGTCAGATT	CTCCCAATGT	ATATACTGAA	AAAAAGGAAA	300
TAGCAATCTT	ACGGGAAAGA	CTCACTGAGC	TGGAACGGAA	GCTAACCTTC	GAACAGCAGC	360
GTTCTGATTT	GTGGGAAAGA	TTGTATGTTG	AGGCCAAAGA	TCAAAATGGA	AAACAAGGAA	420
CAGATGGAAA	AAAGAAAGGG	GGCAGAGGAA	GCCACAGGGC	TAAAAATAAG	TCAAAGGAAA	480
CACTCGAG						488

(2) INFORMATION FOR SEQ ID NO:1256:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1256:

GAATTCGGCC	TTCATGGCCT	AGATCCAGAC	ACGGCACTGC	AGCTTTCAGC	TGACTAGCTG	60
TGTGACTTGG	GCAAGCCCCT	TAATCTCTCT	GATCTCGGGC	TCCCTCCTCT	GTAAATGGA	120
ATTAAGAATA	ACCTCATTGA	GGAGCTTCCT	GAGGAGGTAA	GGAAAGTGCC	TGGCACAGTG	180
CCAGGCTGCT	AAGAGATCAA	TAAATGTCCC	ATCCCCCAGC	CCCACCCAG	TTCTTTCCAG	240
GAATTGAGA	GACTCCTCCC	CCTGTGTTTG	AAAGTGCAA	AGTCTGGCAC	ACTTGCCTCA	300
TAACACATAA	CTCGAG					316

(2) INFORMATION FOR SEQ ID NO:1257:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 346 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1257:

GAATTCGGCC TTCATGCCTA AGCTTCCTTC AGCAGCGCAG GCGGTGGTCC CTGAGGCCCG	60
TGGAAGGAGT CAAACTTGCG GGAATTTTGC AGTTTATCTG CAGGGCTGTT GTTTCAGCA	120
AGACCCAAAG CTAGAAAAGG AGGAGGAAGA AACTGACCCG ATCAGTGCCA GAAGTCATTG	180
TATTCAAAGA AGAATAAGCA AGAAAGAAAA GAAGGAAGGA AGAGAGGTAG ACAGATACAA	240
GATGAAATCC TGTCAAAAAA TGGAAGGAAA ACCAGAAAAT GAGAGTGAAC CAAAGCATGA	300
GGAAGAGCCA AAGCTGAGG AAAAGCCAGA AGAGGAGGAG CTCGAG	346

(2) INFORMATION FOR SEQ ID NO:1258:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 346 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1258:

GAATTCGGCC TTCATGCCTT ACGGCACTTC AAAAATATAA ATCAAAGTCC ATGACTCTAA	60
AAATAACATA TGCATTGATA TGCTCGCCCC TTTGACCCTT CTCTCAAGAG AAATCCCTG	120
CCAAGTAATC CACATACATA AGAAGTGTA AAGTCCCTA GATTAAAAGA GCATAAACT	180
TCATTATGGA AACACAGTAG TCCCGGCTAT TTGGGAGCCT GAGACAGGAG GATCACGAGT	240
CCAGGAGTTT GAGGCTACAG TGAGCTATGA TCGCGCCATT GCACTCCAGC CTGGATGACA	300
GAGGAAATAT TAATTTAGA GTAATCAGAG AAAGCCAGGT CTCGAG	346

(2) INFORMATION FOR SEQ ID NO:1259:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 341 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1259:

GAATTCGGCC TTCATGCCTT ACCCCATTCA TGCAGGAATA AATCAAGTGA GCAGTCCAG	60
ACTTTTGCAT AATATTTTTA CTATGATGCT GTTTTATTAA TATTTTCTAA ATTTCAAAC	120
AAAAAGTGAA TGTTTGAAAT TGCTGGGTCC CGATGTTGGT GGCTGTTGGA GTTTTGGACC	180
ACTCGTAGC AGTGATTGTA AGATTATAAT TAGCTAAAAT CCAAAACAAA AAACCAACAA	240
CAAAAATTGT ATGGTGCGGA ACATGCACCT TGACAATGGT ACTAACTGT TATTCTATAG	300
AACACGTTAG AATAGATCTA TTTTGCCAG AGCTTCTCGA G	341

(2) INFORMATION FOR SEQ ID NO:1260:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 416 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1260:

```
GAATTCGGCC TTCATGGCCT AAAGATAAGG TGGCTGTAAA TGGCTGGATT TATACCTGAG      60
TTCTCTCATC TGTTTCACTG ATCCATGTGT CTGTTTTTAT GCCAGTACCA TGCTGTTTTG      120
ATNACTATAG CTTTGTAATA AATTTTGAAG TCAGGTAGTG TGATNCCTCC AGCTTCATTC      180
TTTTTGCTCA GGATNGCTTT GGNATTCAT AGTCTTGTGG TTCCATGTAA ATTTTAGGTT      240
TTTTTTTTTT TTTTTTTTTT TTTTACTAT TTCTGTGAAG AATGTTATTG GTATTTTGAT      300
AAGGATTGTA TTGAATCTGT AAATTGCTTT GGGTAGTCTT GTCATTTAAA AATATTGTTA      360
TAGTTCTTCT AATCCATGAA CATAGAATAC CTTCCATTT TTTTGGTGTC CTCGAG      416
```

(2) INFORMATION FOR SEQ ID NO:1261:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1261:

```
GAATTCGGCC AAAGAGGCCT AGGCAGACAT CCATAAACAT TTTCAAAATG CAGGGTATGT      60
TTTTCACTGT TAAGGCAACT GTTCTG      86
```

(2) INFORMATION FOR SEQ ID NO:1262:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 332 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1262:

```
GAATTCGGCC AAAGAGGCCT ACTTTTGTA ATAACATTTT AAAGCAGGAA GTATCTACGG      60
TGTGATCGTG GTACAGCTCT TAGTTCAAGT GTGAAGACAT TTGGTTGTCT TGTATATGAC      120
CTAGAAGAAG GGGCGTCTGC TGGAAAACAA TGCTGTTCTT TTTCTCTTTG TTTTTTGGGA      180
CGGGGTCTTA CTCTGTTGCC CAGGCTGCAG TGCAGTGCCT CAATTTTCA GTTCAGTGCA      240
GCCTCGACCT CTGGGGCTTA AGCGATCCTC CTGCCTCGGC CTCCCAGTG ACTGAGACCG      300
CAGGCACACA CCACCACACC CGGCACCTCG AG      332
```

(2) INFORMATION FOR SEQ ID NO:1263:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1263:

GAATTCGGCC	AAAGAGGCCT	AAGCCAGGGT	AGGGACAGCA	GACTGGCAGG	AATGAGTGAC	60
AGTTCTATGC	AAATGGAGTT	ATTATTATTA	TGTATTATTA	TAATAAGGGC	AGGTTTGTAC	120
CAGAACTGCC	CAGTATGGCC	TGTGACTTCT	GCGCAGCAAT	TATTTCTCCA	GGGACAGGGC	180
CTGAAGCTAC	CTCACAGTGA	TGCAAAAAA	TGGGATTCCC	CACTAACCCC	CACACACACC	240
CCCTTCCTAC	CAACCACAC	ATCTCTCAGT	CCTCTCGAG			279

(2) INFORMATION FOR SEQ ID NO:1264:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 629 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1264:

GAATTCGGCC	AAAGAGGCCT	AGGATCACGG	AGGTGGTGCC	TGTGTGTCCC	ACAGGAAGCA	60
AAAGCTGATG	CCCAGTTCCT	AGCATACCTA	AGTAAACTTC	AGGTCCACTC	CCAGCACGTT	120
TCTCGTGATA	GTAAACTAT	GAAGGAATC	AGTGTACAAG	GAGCTTCTAC	AAAATAGGCA	180
GAAGACAGTA	GCCAGATGGG	CCAAGGGCCC	CAGCCACCCA	CGCCCCTCCC	TCTCCTTGAA	240
GACCTTCGGT	TCCAACCCCA	CCATCAGCAG	GGCTCTGCTC	AGTTCCTCCT	TATGTGTATC	300
ACCACAGGGC	TGCTGGCTCG	TGTCACGTC	ACCACCAGAC	CCCACATCAG	GAGTCCCGCC	360
AGGGGTGTGG	GGAGGCAGCG	CTGCCTGGTT	GGCCGTGGAG	CCGTATGGAA	CATGGTGCCT	420
CACAGGCAGT	CTGCTTGGCG	TCCTGGATCC	TGGCTGTATC	CCGCTGGAAA	GGATGTGTGT	480
GGGTCTAAGA	TATGTATATA	ATAGAAACAT	TTATTCAGAA	GCTTTAGTCA	AGACTTCATT	540
TTTAAGTTCA	GAGTAATAAA	CTCATAGTCT	AAATTCCTA	ATTTTCTGT	TTAATTTACA	600
TAAATAAAAT	GAAATGCAAT	TTCTCGAG				629

(2) INFORMATION FOR SEQ ID NO:1265:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 426 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1265:

GAATTCGGCC	AAAGAGGCCT	AGAGGTGCCC	ATTTCATAAA	ATTTTAGCAC	ACTGGATGAT	60
AAAGGAGAAA	TGCTTTGGTT	TAAGAGAGGG	AAATCTTTGT	TACCAATACT	ATCGGTGAGT	120
TCACCTAATA	CTTCCTCGTC	ATCAAGTTCA	TTGGAGTACG	CATCTTCTTC	ATCCTCATCT	180
CCCGGTTTCA	TGGGTTCACT	TTTGACAGGG	CACTCCCCGT	TTGGGTGTAA	AACGTTGCTT	240
TCTTTTGGCC	TTTCACAGTT	GTTCTCTTGG	TCTTTGCTCT	CTGACATCTT	GCTAGACTCA	300
GACGATGAGT	GGCTGAGGGA	GACAGAGGTA	ATTGGGGTGT	TCACTACTAA	ACTAGACAGC	360
CCCCCAGAT	TCACTTCAGC	CTTTGGCATT	TGGGTAATCC	CCAGCGGCTG	CTCTGCTGAG	420
CTCGAG						426

(2) INFORMATION FOR SEQ ID NO:1266:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1266:

GAATTCGGCC AAAGAGGCCT ACCGCCCATC GCGCCGGCGC GACCCGCAGG AGCGTAGAGA	60
GCGCGGGACT AGAGTCAGAG GTCGCGGAC GTGGATCGGA GCCGGCGCGA TGGGCGGAGA	120
GCAGGAGGAG GAGCGGTTTCG ACGGCATGTT GCTGGCCATG GCTCAGCAGC ACGAGGCGG	180
CGTGCGAGGAG CTTGTGAACA CCTTCTTCAG CTCCTTCGA CGCAAAACAG ACTTTTTCAT	240
TGGAGGAGAA GAAGGGATGG CAGAGAAGCT TATCACACAG ACTTTCAGCC ACCACAATCA	300
GCTGCGACAG AAGACCCGGC GGGAGAAGAG AGCCCGGCAG GAGGCCGAGC GGCGGGAGAA	360
GGCGGAGCGG GCGGCCAGAC TGGCCAAGGA AGCCAAGTCA GAGACCTCAG GGCCCCAGAT	420
CAAGGAGCTA ACTGATGGAG AAGACTCGAG	450

(2) INFORMATION FOR SEQ ID NO:1267:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 459 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

GAATTCGGCC AAAGAGGCCT AGCTACTAAG GCAGGTGCAG CATCAATGAT TCACTACATG	60
GTTCTGATAT CAGCTCGCTT GGTACTACTC ACTTTGTGTG GATGGGTACT TTGTTGGACC	120
CTCGTCAATC TCTTTCGAAG CCATTCAGTC CTCAATCTCC TTTTCCTTGG CTACCCGTTT	180
GGTGTTTATG TTCCTCTTTG CTGTTTTCAT CAAGATAGTA GAGCACATCT TCTTCTCACA	240
GACTACAACT ATGTGGTTCA GCACGAGGA GTAGAGGAAA GTGCCTCGAC TGTGGGAGGC	300
TTGGCCAAAT CCAAGACTT TCTCTCCTTG TTGCTGGAGT CGCTAAAAGA ACAGTTTAAT	360
AATGCCACAC CCATCCCCAC CCACAGTTGT CCCCTATCTC CAGACCTCAT TCGCAATGAA	420
GTAGAATGTC TGAAAGCAGA TTCAACCAC CAACTCGAG	459

(2) INFORMATION FOR SEQ ID NO:1268:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 432 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

GAATTCGGCC AAAGAGGCCT AGAGTTTTC AAGCCCGGC TGGTGTTTAA AACGTGTTTT	60
GGCTTTGTTT ATTTTATGGT GTTGGTGTG GTATTGGTGG TCATGTACTG GCATGTAAGA	120
TTTCTTTTCT CTTCCCTCT TCTCTCTGCT TCTACATTCT GTTCATTGAG GCTTCCAAC	180
GAATATGAGA GGAACGGGAG ATATGAGGGC TCAAGTCGCA ATGTATCTGC TGAGCAAAAA	240
GATGAAAACA AAGAAGCAAA GCCTCGATCC CTACGCTTCA CCTGGAGCAT GAAAACCACT	300
AGTTCAATGG ATCCCGGGGA CATGATGCGG GAAATCCGCA AAGTGTGGA CGCCAATAAC	360
TGCGACTATG AGCAGAGGGA GCGTTCTTG CTCTTCTGCG TCCACGAGA TGGGCACGCT	420
GGTAACCTCG AG	432

(2) INFORMATION FOR SEQ ID NO:1269:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 510 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

```

GAATTCGGCC AAAGAGGCCT ACCCTGAACT ACTCCAGTGT GCACCTGCAC AACCTCCATG      60
GTGCCTCTGG AATTGGGTAG CATGGTGGCC CTGCTGATGA GCACCCCAAG GGGCCATTGG      120
GGGACCTCTG AGAATCTCTG CCAGAGCAGT TTGGGTGGGA GTCGATTAAAG GAAAGAAGCA      180
GCAAGATCCA GGACTTTTAA TCTTAAAAGA GAGAGAAATG CTGGCAGATG AACATTCTGA      240
GGATAAGGAG CCTGAGTAAT TGAGCGATTA GGGATGGAGA CATACGATTG AATTCTAGAC      300
CTGCCTCGAG TAGCCAATCA AGCTGTGTCT GGCTGTGCAC TATCCAGGCC TCCACATTCT      360
GTGACAAACT AACAGGGCCG GCTCCTGTCA CTCCTGTTCT CGCCAGCGGG TTTTACCCTG      420
AAGGTGACTC AGGCCTTCTC TTTGCCCTAG ATCGTGGGGA TCATCACACG GCACAACCTC      480
ACCTATGAAT TTCTGCAGGC GTAGCTCGAG                                         510

```

(2) INFORMATION FOR SEQ ID NO:1270:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

```

GAATTCGGCC AAAGAGGCCT ACGCATCCCC TGCAGCTCTT GCCCCAGAC GTTTGGTACC      60
AACTCGAAAC TGCCTTGCA CCGGTTAAGG GTACATGACA AAACACCTAC CCACTTCTGT      120
CCACTTTGTG ACTATAGTGG CTACCTTCGC CATGACATCA CTCGTCATGT CAACAGCTGC      180
CACCAAGGCA CCCAGCCTT TGCCTGCTCC CAGTGTGAAG CCCAGTTCAG CTCAGAGACA      240
GCACTTAAGC AGCATGCTCT GCGCCGACAC CCCGAGCCTG CACAGCCTGC CCCTGGCTCT      300
CCTGCAGAGA CCACTGAGGG CCCCTGCAC TGTTCCTGCT GTGGGTGCT GTGCCCCAGC      360
CTGCCAGCT TACGAGGACG GCCTCGAG                                         388

```

(2) INFORMATION FOR SEQ ID NO:1271:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 407 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

```

GAATTCGGCC AAAGAGGCCT ACAGAACTGT GCCATATTCT TAAACATCAT ACAATATTGC      60
CTTTCAGGCA TGAAAAGCAA AGGGAATTAT TTGTTCAATTT GATAGCGCTT TAGTAATGTA      120
AGTGATACA CTTAGGGCTA GCCCTCTGGC TTGTTACCAT GGTAAAGCTAG GGGAAATATAG      180
TTGAGGGGTC TGCAGCAGAG CTTGGAGAGG ATCTGGGATG TTAAATTCTC AAGTACTTGA      240
ACTTAGCAAC AGGACTTGGT CCCATCCACA CCCTGCTCTC CACCCAGCT GGAATAAATT      300
AGTGCTGACT ATGGAGGCAA AGAGAAACAT ACTTGTAAGC TTTTGTGTTT GGATTTTCTT      360
TGGGGTTTCC TTTTGTCTT TTCTGAACTG GAGGGTGAAA TCTCGAG                                         407

```

(2) INFORMATION FOR SEQ ID NO:1272:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

```

GAATTCGGCC AAAGAGGCCT ACATAAATCA AAAATTTCTG TGAAGATGGG AAATAAGGCC      60
AAGATTGCAA AATGTCCTTT AAGAACAAAA ACTGGGCACA TTCTAAAATC AACACAAGAT      120
ACTTGATATG GGAGTGAAAA ACTTTTGCAA AAGAAGCCAG TTGGTTCAGA AACATCACAG      180
GCAAAAGGTG AAAAAAATGG AATGACTTTT TCATCCACTA AGGATTTATG TAAACAATGT      240
ATAGATAAAG ACTGCTTCA TATCCAGAAA GAGATTTTAC CTGCAACCCC TAATATGCAG      300
AAGACTAGAA ACACCCCTGA G                                     321

```

(2) INFORMATION FOR SEQ ID NO:1273:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273:

```

GAATTCGGCC AAAGAGGCCT ACGAGAACTT CCTTTTCATC TGAATCTTCG TCAAACCTCTC      60
TCTCAGAGCC TTCCTCATCT AACACTTTTT CAGAGCCGTC ATCTTCAAAT TCGGAGTTTT      120
CAGAGTCATT TTCTTCTAAC TCTTTGTCAA GAACATTTTC ATGAAGCTCC TTTTCAGAAC      180
CTTCCTCGTC CAAATCTTTC TCGAG                                     205

```

(2) INFORMATION FOR SEQ ID NO:1274:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274:

```

GAATTCGGCC AAAGAGGCCT ACTCAATACT GAGGCTGATT GGTCTGTTAG GCCAATTGGG      60
TTTGAAAGAA GGATTTCAT CTGCTGTGAA AAATATTAGT TCGGTTATTG GTATGTTTAT      120
ACAGCATGCT CACGATGAAG ATATACCATG GGGTATACAG TTAGCAGCCG TGTATGCTCT      180
TTGTGACTTG AGTCCAGCA ATCCAGCAGA AATTTCCAAG ATCCTGGAAG CTTGGCGGAG      240
AGAGGCCTCC AAAAGCGTTC CGTCTGCGAT TGTCAGCTGC CTAGAGGAAG TCAGTGCCCT      300
GAGCACAGAG GAGCTTGGCT GACCTGGGAT GCCACTGAGG CTTGAGAAGT GCCTTGACAC      360
ATTTTGAACA CAAATAGTTT GATCAGCTTT CAGAATACAA AGGGAGGTTT CAAAACAAAA      420
AGACATAAAA TAGATAAAG CAGACTCGAG                                     450

```

(2) INFORMATION FOR SEQ ID NO:1275:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275:

GAATTCGGCC AAAGAGGCCT AAAGCAACAG GAAAGGATAA ATTCACAGAG GGAAGAGATA	60
GAAAGACAAC GGAAAAATGT AGCAAGCGG AAACCTCCTG CCATGGGTCA GGCCCCTCCT	120
GCAACCAATG AGCAGAAACA GCGGAAAAGC AAGACCAATG GAGCTGAAAA TGAAACGTTA	180
ACGTTAGCAG AATACCATGA ACAAGAAGAA ATCTTCAAAC TCAGATTAGG TCATCTTAAA	240
AAGGAGGCTC TCGAG	255

(2) INFORMATION FOR SEQ ID NO:1276:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

GAATTCGGCC AAAGAGGCCT AACAAGATTG ACCGTGAATG GTTCACTGTT GAAACTCTGT	60
GATGGGTACT TGAGAATTTA TTATATTATT ATGCCTATAT TGCAGATATT TGAAGTTTCC	120
CAATAAAATG TTAAATATAG TGGCAGGGGG CAAGAAGAAA AGGACCACTC AATTTAAAGA	180
AAAAATAATT TAAAAGACA CAGAGAATAG GAAGAGGGAA AAATTGGTGA GGCAAGAGAA	240
AGGCAGCAGG TGGGGCCATA TCAAGAGTGA TTCTTCAGCA GGTGAGGCGT GATACCACCG	300
CAAAAGTAGA GGGTTGCTG TAAGATAGGG GGCACAGATG GCTATAATGC AAGGGAAGGC	360
GCTCGAG	367

(2) INFORMATION FOR SEQ ID NO:1277:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 624 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

GAATTCGGCC AAAGAGGCCT ACTCAGAAAC AAAGCCAAAA TTAAGTTCAT CATTAAAAAG	60
CCCGAAATGT TTGAGACGGC GATTAAGGAG AGCACCTCCT CTAAGAGCCC TCCCAGAAAA	120
ATAAATTCAT CACCCAATGT TAATACTACT GCATCAGGTG TTGAAGACCT TAACATCATT	180
CAGGTGACAA TTCCAGATGA TGATAATGAA AGACTCTCGA AAGTTGAAAA AGCTAGACAG	240
CTAAGAGAAC AAGTGAATGA CCTCTTAGT CGGAAATTG GTGAAGCTAT TGGTATGGGT	300
TTTCTGTGA AAGTTCCTA CAGGAAAATC ACAATTAACC CTGGCTGTGT GGTAGTTGAT	360
GGCATGCCCC CGGGGGTGTC CTTCAAAGCC CCCAGCTACC TGGAAATCAG CTCCATGAGA	420
AGGATCTTAG ACTCTGCCGA GTTTATCAAA TTCACGGTCA TTAGACCATT TCCAGGACTT	480
GTGATTAATA ACCAGCTGGT TGATCAGAGT GAGTCAGAAG GCCCGTGAT ACAAGAATCA	540
GCTGAACCAA GCCAGTTGGA AGTTCAGCC ACAGAAGAAA TAAAGAGAC TGATGGAAGC	600
TCTCAGATCA AGCAGAACCT CGAG	624

(2) INFORMATION FOR SEQ ID NO:1278:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

```

GAATTCGGCC AAAGAGGCCT ACCCAAATCC CATTAGATA AATTGAGGTT CATTTTTCAC      60
ATAGACTTGC AATTTTGTAG CACCACATTT TTTTATAGT AACAGCCTCA TTGCCTGTA      120
CAATAACTAA TAATACAGTA TTTCATAGGT ACATTGTATG TGCACAGGAA ATTTTCTTT      180
AAATCTTAAA AGCCTTTAAT AAACGGGATA TTTAATATT TTAATGTTAC TACATTTAAA      240
AAATAGTGTT TTCCTACAAA ATTTTCTGTA TTCAGTAATA CTCGAG                      286

```

(2) INFORMATION FOR SEQ ID NO:1279:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 227 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

```

GAATTCGGCC AAAGAGGCCT ACTCATCATT AGCTGAAAGT TTGAGAGCTG CAGCAGAAGC      60
GGCTGTATCA CAGACTGGAT TTAGTTATGA TGAAATACT GGACTGTATT TTGACCACAG      120
CACTGGTTTC TATTATGATT CTGAAAATCA ACTCTATTAT GATCCTTCCA CTGGAATTTA      180
TTACTATGTG GATGTGGAAA GTGGTCGTTA TCAGTTTCAT TCTCGAG                      227

```

(2) INFORMATION FOR SEQ ID NO:1280:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 486 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

```

GAATTCGGCC AAAGAGGCCT ACCCGTGCGC TCTACAAATA GTTCCGTGAG AAAGATGGCC      60
GGGAACTCGA TCCTGCTGGC TGCTGTCTCT ATTCTCTCGG CCTGTCAGCA AAGTTATTTT      120
GCTTTGCAAG TTGGAAAGGC AAGATTAAAA TACAAAGTTA CGCCCCCAGC AGTCACTGGG      180
TCACCAGAGT TTGAGAGAGT ATTTCGGGCA CAACAAAACCT GTGTGGAGTT TTATCCTATA      240
TTCATAATTA CATTGTGGAT GGCTGGGTGG TATTTCACC AAGTTTTCG TACTTGTCTG      300
GGTCTGGTGT ACATATATGG CCGTCACCTA TACTTCTGGG GATATTGAGA AGCTGCTAAA      360
AAACGGATCA CCGGTTTCCG ACTGAGTCTG GGGATTTTGG CCTTGTGTAC CCTCCTAGGT      420
GCCCTGGGAA TTGCAACAG CTTTCTGGAT GAATATCTGG ACCTCAATAT TGCCAAGAAA      480
CTCGAG                      486

```

(2) INFORMATION FOR SEQ ID NO:1281:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

```

GAATTCGGCC AAAGAGGCCT AGACAAATT CCTTTCATTG CTCCAGCCG TGTTATTTAA      60
AGTAATTAAC CTTAATTTAT AAATTTTAT ATCAAAGTGC CTTTAACTT TTAGAACTGG      120
CAGGAACAGC CTTATCCCTG GGCTCCTAAT AGTTCTCCAT TTAATCAAAA TTCATCCATC      180
AGGTTCCAGT GTTAAATCAT CTTTAAATG GGAGTTACAT TCTGGTTAAT AGTTTATAA      240
TTCGCCTCCT CTAATAGTTT TTACCACAGG GATCTCGACT CCATTTTCC TGACTCTATT      300
ATTGCTGGCA TCGGATTTCT GCGGGGATGG CTTAACGCGG CCCTGCCTCT CTGGCCTCTG      360
CTGGTCGCCT CTTTGTCTCT TGGTGGTCTC ATTAATTCCT GAGAAGAGTT ATCCTTCCTC      420
CTCACTCGAG                                     430

```

(2) INFORMATION FOR SEQ ID NO:1282:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

```

GAATTCGGCC AAAGAGGCCT AATCCCTTC TGCATGTTCC CTTCCTGCAG GTCTGATGGG      60
GCCATCCAC CCTGCTGGGG AGCAGAGCTT GCCCTCCCTC CCCTCCTTCT CTTCTGGCGT      120
TGCCTGCTGG GTGCCATCGG AGCAGTCCTC ATTACTTCCC ACTTTTGCCC AACTTCTGCT      180
GCTGTGACCA GTCGCATACA CGTGACACC GTGGGGACTG CCCCTCCATA CAGCTCCTCT      240
GTAAGCTTAG GACCAAGGCT GCCTCTCCAG TCTCCCTGGC CCATGCCTGC CCCGGCATCC      300
TCCGCCCCAG CTACACTGGC CCCCATCTC GAG                                     333

```

(2) INFORMATION FOR SEQ ID NO:1283:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1283:

```

GAATTCGGCC AAAGAGGCCT AGGACGTTG TGTGAGGTT AGCATACGTA TCAAGGACAG      60
TAACACCAT GGCTCCGAA GTTTGCCAA AACCTCGGAT GCGTGGCCTT CTGGCCAGGC      120
GCTGCGAAA TCATATGGCT GTAGATTCTG TGCTATCCCT GGGGGTTGCA GCTTTGTATA      180
AGTTTCGTGT GGCTGATCAA AGAAGAAGG CATACGCAGA TTTCTACAGA AACTACGATG      240
TCATGAAAGA TTTGAGGAT GAGCTCGAG                                     269

```

(2) INFORMATION FOR SEQ ID NO:1284:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1284:

```
GAATTCGGCC AAAGAGGCCT AGAGCGTCAA TTATATCAAT TTGTCCTAGA TTTGGATGAG      60
CTGTGAGGAT GTAACACAAG GCTGGAGGAG GCAGATGAGT TTTTATCTCT TCACAGGGCT      120
GGTCGCGGCC AGGTGTTTTT AGAGGTATCG CTGGGGGCCA CAGGGTGTC ACAAAGTGA      180
AAATCCCCGC TGTCTTCTCT CTGGTGACTT TCTGTAGAAC CTCATTCCC ACCAGGCTGC      240
AAGACTTCCC TTCCAAGTGT CTTGCCTTCG ACATGGTGAA CTCCAAGTGC ACTTCACCGA      300
ACATTCCACA GGCATCTTGT ACCAGAAGGC AGGCTCGAG      339
```

(2) INFORMATION FOR SEQ ID NO:1285:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285:

```
GAATTCGGNN AAAGAGGNCCT AGAAATCANA AAGCATGCCT GTGCAATTGA ACAAAGGGCT      60
AAGTTCTAAA AACATCAGTT CATCTCCAAG CGTTGAGAGT TTGCCTGGAG GAAGAGAATT      120
CACTGGCTCT CCACCTTCAT CTGCTACTAA AAAAGATTCC TTTTITAGCA ACATCTCAGC      180
TTCTCGCTCA CACAGCAAAA CTATGGGCAG AAAAGAATCT GAAGAAGAAT TAGAAGCCCA      240
AATTTCCTTC CTTCAAGGGC AGTTGAATGA CCTGGATGCC ATGTGCAAT ACTGTGCAAA      300
GGTGATGGAC ACTCATCTTG TAAATATTCA AGATGTGATA TTACAAGAAA ATTTGGAAAA      360
AGAAGATCAA ATTCTGGTTT CCCTGGCAGG ATTAACAACAG ATCAAAGACA TTCTAAAAGG      420
TTCCCTGCGT TTAAACCAGA GCCAGCTAGA GGCCGAAGAG AACGAACAGA TCACCATTTG      480
GGACAACTCA CTCGAG      496
```

(2) INFORMATION FOR SEQ ID NO:1286:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:

```
GAATTCGGCC TTCATGGCCT AGCAGAAGCT AAGAACTGTC TTAATAATAA TTTTAAAAGT      60
AAATAAGTTA TAATGCATAG GTTAGCCCAT TCATTAATGA TTTTCAGTTT CAAGTGTAAT      120
TATTTCTTAA TGATTACTAG TTGATCAGTG TAATGAAAAC ATTGAGTAGA CAAACTAAAT      180
GCACAGTATA AATGTGACAT AAACACTGGT TTCAATTTGT CTCAAGAAAA AAGAAAAAAA      240
AAAGGCCCCCT GCAATGGCAA AGAGTGGCCA CTATTGGGGT AATTCAAACA ACCCACTGTA      300
ATACAGGAAA GCACTCGAG      319
```

(2) INFORMATION FOR SEQ ID NO:1287:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:

```

AAAATGGAGA AGTTACTGGC TGGAGAAGAT GGGACAAGTG AACGAAGGAA AAGCATCAAA    60
ACCTACAGAG AAATTGTTCA AGAAAAAGAG CGGAGAGAGA GAGAGCTGCA TGAAGCATAT    120
AAGAACGCTC GGTCCCAGGA GGAGGCAGAG GGGATCCTTC AACAGTACAT TGAGAGGTTT    180
ACCATCAGTG AGGCTGTTCT CGAACGCTTG GAGATGCCAA AAATTCTGGA AAGAAGCCAT    240
TCAACAGAGC CAAAACTCGA G                                     261

```

(2) INFORMATION FOR SEQ ID NO:1288:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288:

```

GAATCGGCC TTCATGGCCT ACTCTGAAGA TATTTATAGC TCTCTTAGAG GTGTCACTGA    60
AGCAATCCAG AATTTCAGCT TCCGTAGCCA AGAAGATATG AATGAGCCAT TGAAAAGGGA    120
TTCTAAAAAA GATGATGGCG ATTCAATGTG TGGTGGTCCT GGGATGTCTG ACCCAAGAGC    180
AGGAGGTGAT GCTACTGACT CAAGTCAAAC AGCTCTTGAT AATAAAGCTT CATTGCTCCA    240
TTCAATGCCT ACTCACTCCT CTCCACGCTC TCGAG                                     275

```

(2) INFORMATION FOR SEQ ID NO:1289:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289:

```

GCGATTGAAT TCTAGACCTG CCTCGAGAAC GCCGGGGTCC ATCATTAGCA GTCCTCACAT    60
GCGCCGGAGA GCTACATCAA CACGAGAGTG TCCATCTCGC CCACACCAGA CTATGCCCAA    120
CTCATCTTCC CCCCTCGAG                                     139

```

(2) INFORMATION FOR SEQ ID NO:1290:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290:

GAATTCGGCC	AAAGAGGCCT	AATAAGTTTG	ATTAAGCTTG	CAGACATTAA	GCTTTTCTAG	60
CAGCTGGTGT	GTGCAGAGGC	AGATGGCTCT	CTGGTTCCAG	GACTACCTAC	AATATAGAGA	120
AATTTTCTCT	ATTCCAGTCA	ATTCATCATG	GGTAAGAATA	GTCCATTTTG	GTAGTGTTAT	180
TTCATCGTTT	ACAATCTACC	TATGGGTAGT	GGCTGGTAAC	TGCCTGGATG	TTGACATTTT	240
ACAAAGGCCA	TACTTAACCA	CACTTTTATT	TCTATTGTG	CGATGCCTTG	GAGTAGTTTC	300
CCAAAGTGAT	TTTGAGTGTG	GAAGAAATGG	TATTGTCCCC	GAACAGCTGS	TGGTCGAG	356

(2) INFORMATION FOR SEQ ID NO:1291:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291:

GAATTCGGCC	TTCATGGCCT	AGAGGATCCT	AATGAAATAC	CTGAAACATA	TATTGGCATT	60
TATCAATGGC	TCAAATCTTC	ATTATCTCT	GGCCTTAACC	CTGGCTCCTG	AGGCTGCGGC	120
CAGCAGAGCC	CAGGTCGAG					139

(2) INFORMATION FOR SEQ ID NO:1292:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 442 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

GAATTCGGCC	TTCATGGCCT	ACTATCAGGA	AGTGATTTCG	GGAGAGGGGA	TTTTACCTGA	60
TGGTGGAGAA	TACAAACCCC	CTTCTGATT	TTTGAAAAGC	AGAGACTATT	ACACGGATTT	120
CCTAATTACA	CTGGCTGTGC	CCTCGGCAGT	GGCACTGGTC	CTTTTCTAA	TACTTGCTTA	180
TATCATGTGC	TGCCGACGGG	AAGGCGTCAT	CCAACCTGGT	CATCACAGTG	CTATTCAGAA	240
ATCTACCAAG	GAGCTTCGAG	ACATGTCCAA	GAATAGAGAG	ATAGCATGGC	CCCTGTCAAC	300
GCTTCCTGTG	TTCCACCCTG	TGACTGGGGA	AATCATACCT	CCTTTACACA	CAGACAACTA	360
TGATAGCACA	AACATGCCAT	TGATGCAAAC	GCAGCAGAAC	TTGCCACATC	AGACTCAGAT	420
TCCCCAACAG	CAGACTCTCG	AG				442

(2) INFORMATION FOR SEQ ID NO:1293:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

GAATTCGGCC TTCATGGCCT ACATGAATTA TCTGTGAGTT GGTAAAGGT AATATTGGTT	60
AGCATCAAGA ATAGGAAGCT ATTAGTTTC AATCAAGAAT AAGCTCAAAT TTGGTCTAAA	120
TCTTAATTTT AAGCTGGGTA ATCATTGATT TACAATTTT TTCTTGGTGT CACATTTCTT	180
CCAAAACAAT AATCAATGAA GCCTTCCCA CCCTGTGCCT TTGCTCTCGA G	231

(2) INFORMATION FOR SEQ ID NO:1294:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

GAATTCGGCC TTCATGGCCT ACTCTGCTAA CTTCCTGCCT CTATGCTTTT CCCACCTAC	60
CTCCTCTCCC CATTCACACT CTGCGTGAC CTCATCCATT TACCTGCCTT CAATTAGCAT	120
CCATACGTTT CTCTTTCTC AATATAAGTC CCCAGCTGAG ACTCTGTTTC TGAAATCCAG	180
ATTTTATTT CCAATTCTAC TGAACAACT CAGTCTAAAG CCAAGCCAT TATCTTCTCC	240
TATAAGCCTG CATCTTTCT TTCTTTCTT TCTTTTTTT TTTTAAACAG AGGTTAATGG	300
CATTCAACAT CTACCAAGC ACCAGGAGT TAGATTCAGA ACGGATGGAC TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1295:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 429 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

GAATTCGGCC TTCATGGCCT AGGCTAACTG TTATTTGCAT CTACAGCTC AGAAAACAAG	60
CATGGTGAGA TAAGGAACT TTAATAAGGT CACATAACTA GTAAGTGGTG GAGCCAGCGT	120
TGAAACTCAG GAAGTCTGTA CAACTGGG AGGGAAGGCT AATATTTGAA ATGATAGACT	180
CAACATTCAA TATTTAGTA TCGATGAGCT CTAAGTTGAT AGAGCTATGT GTAAAAACCC	240
TGCATTTAAT ATTAAGAAAT CATTGGCAGA AGAGTAAGAG AGGGCTTTGG TCAAGTAAGC	300
TGAGTGCATA AGAAACTCT GGCATTTGAG GTGTCCTTAG CTCCAGATGC TTGGTAGGG	360
CAGAGTGAT CCATGGAGGT ACCATGAGCT ACCATGGAGG TAGCTCAGAG AGGAAAGGGA	420
AACCTCGAG	429

(2) INFORMATION FOR SEQ ID NO:1296:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

CTCGAGCTGT TCTGTAAATA CCTGGTGCTA ACATCCCATG CCGCTCCCTC CTCACGATGC	60
ACCCACCGCC CTGAGGGCCC GTCCTAGGAA TGGATGTGGG GATGCTCGCT TTGTAATGG	120

CTGGTTCTCT	TTTTTTTTTC	TTCCTCTCT	ATGGCCCTTA	AGACTTTCAT	TTTGTTTCTAGA	180
ACCATGCTGG	GCTAGCTAAA	GGGTGGGGAG	AGGGAAGATG	GGCCCCACCA	CGCTCTCAAG	240
AGAACGCACC	TGCAATAAAA	CAGTCTTGTC	GGCCAGCTGC	CCAGGGGACG	GCAGCTACAG	300
CAGCCTCTGC	GTCTTGCTCC	GCCAGCACCT	CCCGCTTCTC	CGTGGTGACT	TGGCGCCGCT	360
TCCTCACATC	TGTGCTCCAT	GCCCCTAGGC	CTCTTTGGCC	GAATTC		406

(2) INFORMATION FOR SEQ ID NO:1297:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 639 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297:

GAATTCGGCC	AAAGAGGCCT	ACGCCCGCCA	ACACGCCTGG	GTAATTTTTT	GTATTTTCTAG	60
TAGAGACGGG	GTTCACCGT	GTTAGCCAGG	GTGGTCTTGA	TCTCATGATC	TCGTGATCCA	120
CCTGCCTCGG	CCTCCCAAAG	TGCTGCGATT	ACAGGCAAGT	GCCACCGCAC	CCGGTGACAC	180
TGTTGCTCTT	AAGCAGAAGC	AAAATCAAAA	GGCAGACAGG	ACTCAAAGAA	TGGTTCTAAA	240
CCTAAAAGTA	CTAAGGCCTC	TAGGAACTAT	GATGATGACA	ATTACTGTGC	AATTTATATC	300
ATGCTGAATT	TTAGTAAAC	CCCTGGCAAA	CCACTCTCAC	TTGGTGACAC	TCCGTCCACA	360
GCACGGGGCC	ACAGCATAGT	GGATCAGTAC	AACTTTCCTG	GACAGCCTTG	CTACCTGTAC	420
ACTCTTATGG	ACTCAATTC	ACTTCAATGT	ATTGTTCTTA	GAGGTAAATG	GACATGTGAA	480
CACAGATTCA	CAGGCAAAGA	TGTTTATATG	CACCACTGTC	TTGATGTTCA	AGAAAATGGA	540
ACTGGTTACA	TGCATGTGAT	TAGCTATATA	ATGTAAGTGT	ATTCAGCCCC	TAAAAATGT	600
AGGCCTCTTT	GGCCGATTGA	ATTCTAGACC	TGCCTCGAG			639

(2) INFORMATION FOR SEQ ID NO:1298:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 606 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298:

GCGATTGAAT	TCTAGACCTG	CCTCGAGTCC	AACGGCATCG	ACGTGTACCC	CCAGAAGGAA	60
TTTGATGAGG	ACTCGGAGGA	CCGGCTGGTG	AACGAGAAGT	TCCGGGAGAT	GATCCCATTT	120
GCTGTGGTGG	GCAGTGACCA	CGAGTACCAG	GTCAACGGCA	AGAGGATCCT	TGGGAGGAAG	180
ACCAAGTGGG	GTACCATCGA	AGTTGAAAAC	ACCACACACT	GTGAGTTTGC	CTACCTGCGG	240
GACCTTCTCA	TCAGGACGCA	CATGCAGAAC	ATCAAGGACA	TCACCAGCAG	CATCCACTTC	300
GAGGCGTACC	GTGTGAAGCG	CCTCAACGAG	GGCAGCAGCG	CCATGGCCAA	CGCGTGGAG	360
GAGAAGGAGC	CAGAAGCCCC	GGAGATGTAG	ACGCCACCCT	GCCCCACCCC	GGGATCCTGC	420
CCCCAAGTCA	TTTCCGTCCC	CCCCCCAGGC	CCTCCTCCCA	CGGAGTGGCA	AGACTGGCTG	480
AGGCCTAGCT	CTCTAAAACG	GTGGGGGAGG	GGGGAGCGCC	CTGAGAGAGG	CATTCTACTA	540
ACCCACCCC	AATCACCCCT	ATTTTACTC	TTTCTACTTT	CGGAATTGGA	AAGAACGACA	600
CTCGAG						606

(2) INFORMATION FOR SEQ ID NO:1299:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1299:

GAATTCGGCC AAAGAGGCCT AGGAGTGATG TTCATTTTGG GATTTCGAGG GTGCATTGGA	60
GCGCTACGGG AAAACACTTT CCTTCTCAAG TTTTCTTCTG TGTTCTGGG AATTATTTTC	120
TTCTGAGAGC TCACTGCCGG AGTTCTAGCA TTTGTTTCA AAGACTGGAT CAAAGACCAG	180
CTGTATTTCT TTATAACAA CAACATCAGA GCATATCGGG ATGACATTGA TTTGCAAAAC	240
CTCATAGACT TCACCCAGGG ACTCGAG	267

(2) INFORMATION FOR SEQ ID NO:1300:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 414 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300:

GAATTCGGCC AAAGAGGCCT AGTGTCTTCC AATCAAGTTA ATAAATATCT GTCTTCGTAC	60
CAGGAAAAAT TCAATATTAT TTAAAGGAG AAAAAATAAG AATGTATTGG TAAAATGCTT	120
TCTCTCACTT CGAAATATCT TAGTGAACAA GAACACTGAC ATAGAATTAA AATTCTATGA	180
ACAGCCATAA CCAAAGGAAT CTCATTTAGT GAATATTTAT GTCCAGTAAC TGCAACCCAC	240
ACTTAGAGCT ATCCTTTTGC TTAAAAACAA AAATTTGGGC CTTAAGAAGT GATTAATATC	300
AGGCAAAAAT AAATTATACT TTTGTTTATT TATTCAGGGC CTTGCTCTGC TGCCCCAGGT	360
GGACTGCAGT AGTGCAATCA TAGCTCACTG CATCCTTGAA TTCCTGGGCT CGAG	414

(2) INFORMATION FOR SEQ ID NO:1301:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301:

GAATTCGGCC AAAGAGGCCT AGTGAAGTTT ACTGTGATTC TATGGAACAA TTTGGACAAG	60
AAGAGTCTTT AGACAGCTTT ACGTCCAACA ATGGACCATT TCAGTATTAC TTGGGTGGTC	120
ATTCCAGTCA ACCCATGGAA AATTCTGGAT TTCGTGAAGA TATTCAAGTA CCTCCTGGAA	180
ATGGCAACAT TGGGAATATG CAGGTGGTTG CAGTTGAAGG AAAAGGTGAA GTCAAGCATG	240
GAGGAGAAGA TGGCAGGAAT AACAGCGGAG CACCACAACCT CGAG	284

(2) INFORMATION FOR SEQ ID NO:1302:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302:

GAATTCGATT GAATTCTAGA CCTGCCTCGA GCCTGTGCGA GAAAAGTGAA CGCCAGTCTA	60
AAAAAAAAAAAA AAAAATCTAA AAGAAGCCAA AAATCCACTT GTAATGAGAT TCATAGACCC	120
CTTATTTATA CAACTCACAT ATTTGAATTT TTACATATTG AATTTTCTTT TAAAGGGGTG	180
GAGGGGTCTC GAG	193

(2) INFORMATION FOR SEQ ID NO:1303:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303:

GAATTCGGCC TTCATGGCCT-AGGGATACAG CAACTATTTT ATCAATTGTT TGTATTCC	60
TTTAAGGTAA CATTTTAAAT GAAATGTATT ATATTTTAAAT CTATCCTTTT CCTTTGTTTT	120
TGTTCTTATT ATCTCTTCTG ATATATAACC AAAAAATGAA AAAATCTGTA CACTTGGTGT	180
TTGATTACC TAAGCACCTA GTTAATTTAA TCTTTGTAAC ACTTTGGATG GTTAACCTAA	240
CCTTTACTCA AGTTGGTTTT TGTTTGTGTG AAAATGACTT ACTTGGTGGA ACCACTACTC	300
TCGAG	305

(2) INFORMATION FOR SEQ ID NO:1304:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304:

GCAGCGAGCA GTATACCAGC AGCAGCAAGC GAAAGGAAGA GTTGCTGAT ATGTCAAAAG	60
TTCAATCAGT GGGAAGCAAT GGGCTTCTGG ACTTTGATTC AGAATATCAG GAGCTCTGGG	120
ATTGGCTGAT TGACATGGAG TCCCTTGTA TGGACAGCCA CGACCTGATG ATGTCAGAGG	180
AGCAGCAGCA GCATCTTTAC AAGCGATACA GTGTGGAAAT GTCCATCAGA CACCTGAAAA	240
AGACGGAGCT GCTTAGTAAG GTTGAAGCTT TGAAGAAAGG TGGCGTTTTA CTACCAAATG	300
ATCTCCTTGA AAAAGTGGAT TCAATTAATG AAAAATGGGA ACTGCTTGGG GTATTTGCAT	360
TTTTATTACT GTTTGTAGGT TATGTGTACA TTTTTCGCGT AGTGAAGTCA CTCGAG	416

(2) INFORMATION FOR SEQ ID NO:1305:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

```

GAATTCGGCC TTCATGGCCT ACCAATGTCC TGCACATTGC CAGACTTCCA AACAGGTACA      60
AGTTCCCATC TGTTCGCAA TAGATGAAAG CAAGTCACAG TTCCCAGGGC TACCAGTGTA      120
ATTTCTCAAG TGGCCAAGTT ACCTGGCTTC ATGGCTTGAC CTGCTGTGTT CTTTGGAAA      180
TGGAGAATGC CTGAGGGCTG TCTTAACAG AAGGGTATGT GGCAGTATAT TACAGAATTT      240
ACAAGAAGCA AGGTGCAAAT GAATTACATT GAATTCATT GTTAAGAAGA GATGATTAA      300
AATTTGGTAT TTAACAACAT AAACGACTTT GGGGCCCAAC TCGAG                      345

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(2) INFORMATION FOR SEQ ID NO:1306:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

```

GATTTCTCTC AGCTTTTATT TGTTTGAAAA ATTTTAAAT TCACCTTCTT TTTTGAAAGA      60
TTTTACTGA TTATAGAATT CTAAGTAGTT TATTCTTCTA GGACTGTGAA CATATAATTC      120
TACTGTCTTC TGGCATTAT AGTTTCTTTA TTTTATTTT TATTGAAAAA CATTTTTTTT      180
GAGACATGGT CTCACTCAGA ATACTCGAG                      209

```

(2) INFORMATION FOR SEQ ID NO:1307:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

```

GAATTCGGCC TTCATGGCCT AAGCTTTTGC TTTTTTAATA ACTTGATAG CTAAAACTT      60
GACGCTGAAA AGCTCTCAGA TCAAAGCTGA TCCTTCTGTC AGTAATGATT CTAAAAATAA      120
GCAAGATTTT AATGGGGAAT ATATTTTATT TCATTCTTAT CTCAAACCTA GGTACTGTGG      180
TCGTTTGAG TTCATTTTCA GGCATTTTCA ATGTGCCTCA GGCCACATCC AACCTCTCCC      240
CAGAACTCGA G                      251

```

(2) INFORMATION FOR SEQ ID NO:1308:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

```

GAATTCGGCC TTCATGGCCT ACCTGACTCT TGAGATACTG ACTGGAAGAT AGACTGTTTT      60
GTTCCACCTG ATTGTATGGG AGAAATTTT GACCTTAGAA AGTGGAAATG AGGTTGCTAT      120
GGAAACTGGT AATTCTGCTG CCACTCATAA ACTCTTCTGC AGGTGATGGT CTTTAAAGCC      180
GTCCTATTTT TACTCAGGAG CCACATGATG TCATTTTCC TTTGGATTAA TCAAAATCTG      240
AGGTCATCCT GAATGTGCT GCTAACGGTT ACCCTTCGCC TCATTATAGG TGGAAAGCAA      300

```

ATGGCACAGA ACTCGAG

317

(2) INFORMATION FOR SEQ ID NO:1309:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 412 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

```

GAATTCGGCC TTCATGGCCT ACACAGTATC ACTAAAAGAT TTTCATTCGG AAGATCACAT      60
TAGTAAAAAG ACTGAGGAAG TGTTCTGAA AGATGGAAGA ATTGAAAGAC TAAAGTTAGA      120
GCTTGAAAGG AAAGATGCTG AAATCCAGAA GGTGAAAAAT GTAATCACTC AATGGGAGGC      180
AAAGTATAAG GAAGTAAAGG CAAGAAATGC ACAATTATTG AAAATGCTTC AGGAAGGTGA      240
AATGAAAGAT AAGGCAGAAA TACTTCTGCA AGTTGATGAA TCACAAAGTA TCAAGAATGA      300
GCTCACTATT CAGGTGACTT CACTTCATGC TGCATTAGAA CAAGAAAGAT CTAAGTGAA      360
AGTATTACAA GCAGAGTTAG CCAAATACCA GGGTGGCAGA AAAGGGCTCG AG              412

```

(2) INFORMATION FOR SEQ ID NO:1310:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:

```

CTCGAGTGTG GTGGTATGTG AATTATATCT CAGTAAAGCC ATCACAGGGC AGAAGAAAAA      60
GAGAAAAGAA AAAGAAAACC TTCGAGGAAG TCCAACAAAA AACATGAGGA AGAAAAGGTG      120
AGAGCCTGAG GATCCACACA GCAGGTACAG CACTAACTG ACAGAAATTC TAGAGCCAGA      180
CAACAATGAC TAATCAAAC AACTCAAAA CAAATGATTA GGCCATGAAG GCCGAATTC      239

```

(2) INFORMATION FOR SEQ ID NO:1311:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:

```

GAATTCGGCC TTCATGGCCT ACAAGGAAGC ACAAGGAGAA AATTATGATG AAATGGAGCA      60
AAACAGGTAA GAGAGAGGGT CAGAGAAGTG AATGTGGGCC TTGATGCTGA AGCCATTGGA      120
GGGTTTCTG TTAGAGAGGA GTATGGGAAT GATATGATCT GACTTATGTT TCAAAAAGTG      180
TACTCTAGCT GCTTTGTGGG AAATATNGGA GGGAGAGAGC AGAATCAAGG AGGCCATTTA      240
AAATGCCATT GCAAATATCC AAGAGAGGCG GACTCGAG                                278

```

(2) INFORMATION FOR SEQ ID NO:1312:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:

```

GAATTCGGCT TCATGGCCTA ATCACATATG GTAGAGATTT TATACAGAAT TTAAAAATGT      60
GGCATTAAAA AAACCTGTTC CATGGAAAAC TGCTTTCAGA GATTTTAAAT AAGTGTTTCT      120
CTCACATAGG AACCTAAGCT TCTCAGAGCT TTTAATAGGC TTCTAACAGG CTAATAGTCA      180
AGGCCGTGAC CCAAGAAGGG ATATAGTTCA CAGTGTTTTC CACAAATATT TCACCCCGAGA      240
GCTCGAG                                           247

```

(2) INFORMATION FOR SEQ ID NO:1313:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:

```

GAATTCGGCC TTCATGGCCT AGGGTCTTAG CTTTGGCTCT CCTTGCAAAG TTATTTCTAG      60
TTAATTCATT ATGCAGAAGG TATAGGGGTT AGTCCTTGCT ATATTATGCT TGGTTATAAT      120
TTTTCATCTT TCCCTTGGCG TACTATATCT ATTGCGCCAG GTTTCCTCTG TCTCAAAAAA      180
AAAGAAGTTA CTTCCAAGAC AGACTTTTAA GATGTAACCA GCACAAAGCA ATGTCAGGGA      240
GGAGTGATAC ATGACAATAA ATGAGTCAGA TGAGCAAGAA GGCCCCAGAA CCCATGCCCC      300
CAGGACTCGA G                                           311

```

(2) INFORMATION FOR SEQ ID NO:1314:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:

```

GGGGAGCTGC AAACGCCCGC GATACTGTCA GAGATGGAGA AAGGTATGAC AGGAAGAGCA      60
GATCAAGAAG ACGGGAACAG CACGAGGCAC TGGGAGCTGC AAACGCCCGC GATACTGTCA      120
GAGATGGAGA AAGGTATGAC AGGAAGAGCA GATCAAGAAG ACGGGAACAG CACGAGGCAC      180
TGGGAGNTGC AAACGCCCGC GATACTGTCA GAGATGGAGA AAGGTATGAC AGGAAGAGCA      240
GATCAAGAAG ACGAACTCGA G                                           261

```

(2) INFORMATION FOR SEQ ID NO:1315:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:

CTCGACTTGC	ACGAGGAGTG	GCAGGATTAT	CTGCAGAGGG	ACCATTGGGA	CAGCTAGTAA	60
GGCCAGGTGC	TCTTTAGGCA	CCCCTTCTTC	CACCAGCTTC	AGGCCTGTCA	CAGCATCAGC	120
TGCTGAGAAG	CCAATCTTTG	ACCTTAGAAT	CAGAAGGCAA	AAGGCCAGAA	CTGCTGGCAT	180
TTTTATAATT	GAGAATAGCA	GCTTGTAAGT	GTCTGTGATC	CCTTGGGTCT	CTTCTTTTAC	240
TATTGACGCT	TCTCTGTTTT	CTTTTTCAG	AAGGCTACT	AATGTTGTG	TTATTAAAAA	300
TACAGTAGGC	CTCTTTGGCC	GAATTC				326

(2) INFORMATION FOR SEQ ID NO:1316:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:

GAATTCGGCC	TTCATGGCCT	AACGTCCTC	ACTGTCCTTC	TTAGTATCTA	ATTCTCCTTC	60
ACCTAATAGA	ACAGCAAATT	CTTTGAGTTT	AGGATCCTTA	ATGCAGTGTA	AATATTGCCT	120
TTTATCCTTC	TTCTCAGCTA	TGGTCTCAAT	TCAAATCATG	AGGACCATTG	TGGTGGCTCC	180
CGAATGGCCT	CACTGTCCA	CTCCTTCCCC	ACTGCGCTAC	AGTCCATTCC	CCAGTGCCT	240
CGAG						244

(2) INFORMATION FOR SEQ ID NO:1317:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:

GAATTCGGCC	TTCATGGCCT	AGAAAGGTTT	GCCTGGTAAG	ACTGAACTGT	TCATAGTTCT	60
TTAAATAAGC	TACAAATATTT	CCTAATTGTG	TACCCTTGAT	TTTACTGTTT	TCTTGCCCTA	120
GAATGCTGTT	TCTATCATTC	TTCATCGAG				149

(2) INFORMATION FOR SEQ ID NO:1318:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:

```

GAATTCGGCC TTCATGGCCT AGTCAGCAAA GCAAGGGGAG GCAGACCACA GGCCTCATGA      60
CTCTCACTGG AGTGCAATGG GACCCCATG GGGTGAAAGC AGAGGAGTGA GCTGCTCTGA      120
TGTGAGCACT CACTCTGCTT GCCATATAGT GAGTAGACAG GAGAGACCAG GGCAGAAGTA      180
AGAAGACCCA TCAGAGGCTC CTCAGGAACC CGAGTGGGAG ATGGTGGTGG AACAGGGTTG      240
TAGTAGTGGC AGTAGTGAAA AAATGATCAG GTTTTGAAA TATTTGGAAG GTCGAACTCG      300
AG                                                                                   302

```

(2) INFORMATION FOR SEQ ID NO:1319:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

```

GAATTCGGCC TTCATGGCCT AAGAAAAAA GAAAGAAAGA AAAAAGAAAG TACAAGTTTA      60
TAAAGTATTA TAGTGAAAAA TTCGCATTCT GGGTGATTTT AAGCCATTTA AAATTTATAT      120
AAAACAACCT TCCATAAAAA TTTGACAGGT GCCCAGATGT TGCTTTCTCC ATTTATTTTT      180
TGTTTTTTTT TAATCACAGT GGTCTTGAGG CAGGTCGAG                                     219

```

(2) INFORMATION FOR SEQ ID NO:1320:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:

```

GAATTCGGCC TTCATGGCCT ACTGAGTTAG GTTTATTATA TGCAAGTTTT ACAGATGAGG      60
CTACTGTGAC ACAGAGGGCA TAACTTGTC AAAGACATGC AGCAAACAGG ACAGACAAAT      120
CTGAAGCCAG GTTGTCTAAG CTCAGAAATCC ACACCTATAA CCGCTGTACC CCACTGCTTT      180
TGCCAGCAGG AGCTCACGTA CTTAGGACAG ACAATCAGTA CAGTGCTAGG CTCACTGAAG      240
GTGTTGAACA AATGTCTGTT CACTCTTTTT GTTCTCAAAA GTACCAGGAA AGGCCAGAAG      300
AAAAAACTAC AAGACTTAGA AACTACAATG GATCAGATCA CTCAGTAGCA CCTCACTCGA      360
G                                                                                   361

```

(2) INFORMATION FOR SEQ ID NO:1321:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:

```

GAATTCAAAC GAAAGCCAGC TGAGAATACA GGAACATGT TTCCAGCCAA ACCCAAACA      60
CTCGAG                                                                                   66

```

(2) INFORMATION FOR SEQ ID NO:1322:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322:

```

GATTGAATTC TAGACCTGCA GCTACAGAAG TCAAGATTCC AAAACCAAGA GGCAGACCCA      60
AAATGGTAAA ACAGCCCTGT CCTTCAGAGA GTGACATCAT TACTGAAGAG GACAAAAGTA      120
AGAAAAGGG GCAAGAGGAA AAACAACCTA AAAAGCAGCC TAAGAAGGAT GAAGAGGGCC      180
AGAAGGAAGA AGATAAGCCA AGAAAAGAGC CGGATAAAAA AGAGGGGAAG AAAGAAGTTG      240
AATCAAAAAG GAAAAATTTA GCTAAAACAG GGGTTACTTC AACCTCCGAT TCTGAAGAAG      300
AAGGAGACGA TCTCGAG                                     317

```

(2) INFORMATION FOR SEQ ID NO:1323:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323:

```

GAATTCGGCC TTCATGGCCT ACTGTAAGGA GGAGATGAAA GAATTAGTAG AAAAGGTTTT      60
AAAAACAGTT ATTATAACTA TATTCCATAT GCTGAAGGCG CTCGAG                      106

```

(2) INFORMATION FOR SEQ ID NO:1324:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324:

```

GAATTCGGCC TTCATGGCCT ACTCCTTAT TTCCTTTGTC TGTAGAATAA AGTCTTAGAA      60
TAATATTCCT GTTAAGGCCG TGCTTATCCC AATACCGTAT CCATACTGAA CTTTCAGTTC      120
TTTATATGCA CTCTACTCTC TGTCTTTCAG ATTTTTCGAG GTATTCCTTT AGAACACTCT      180
TTCTCTTCCA TCTTATCGCC TACTCTTGG GTTTCGTTT AAACATTACA TTTCTCGGTG      240
GGGGGGCTTA TCTCGAG                                     257

```

(2) INFORMATION FOR SEQ ID NO:1325:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:

CTCGAGACCG CAAGCACTTC CCACCTCATC CTTATTTCTT CTATCCCTTT TCATTGTTTT	60
TTTCTCCTTT TTAAATTC	78

(2) INFORMATION FOR SEQ ID NO:1326:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326:

GAATTCGGCC TTCATGGCCT AGAATTGTCC TCTGTGGAAG GGACTTTCTT TTGGCCCTAG	60
GCCCTTCCT GCCCTGTCG TCAGCAGAGA GATGGAAGAC TTGATGACTA GTCACCCTT	120
ACCGCCCTT TTGTCAGATG AAGACGGTTC CAAGGAGAGT AATGATCTGG CTACCACTGG	180
GTTAAATCAC CCAGAGGTTT CATAAGTAG TGGCGCCACA TCATCCACCA ACAATCCAGA	240
ATTGTGGAG GATCTCTCTC AAGGTCAGTT GCTTCAGAGT GAGTCTTCAA ATGCAGCAGA	300
AGGCACCTCG AG	312

(2) INFORMATION FOR SEQ ID NO:1327:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327:

GCGATTGATT CTAGACCTGC CTCTCCTTCA AGCATTGCAG CAAACAATTG TACTGTGAAT	60
ACGTCATCAA TTGCAACGTC TTCAATGAAG GGTCTTACGA CTACAGGAAA CTCGTCTCTT	120
AATAGCACAT CTAACACTAA AGTATCAGCA GTGCCTACAA ATATGGCTGC CAAGAAAACA	180
TCTACCCCA AAATAAATTT TGTGGTGGT AATAAGCTGC AGTCAACAGG AAATAAGCA	240
GAAGACACAA AAGGAACCGA ATGTGTTAAA AGTACTCCTG TCACTTCTGC TGTGCAGATT	300
CCTGAAGTAA AGCAAGACAC AGTGTGAGAA CCAGTCACAC CTGCATCTCT TGCTGCTTTA	360
CAGAGTGATG TGCAGCCAGT GGGCCATGAT TATGTGGAAG GGATACTCGA G	411

(2) INFORMATION FOR SEQ ID NO:1328:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:

```

GAATTCGGCC TTCATGGCCT ACTTTTTCCT TGGTCAGATC ACAATGCTCC TATAAATGTT      60
TCACATAACA TGCTTACTTG TGGGTATACC CTCCTTATCT CCTCAGGGGC TAATTTTGGG      120
AAGGGACTAC TGTCTTACT TTAAGTTAA ATATAAACTA AATTCCTTCC CTAGTTAGCT      180
CAGCCTACGT GCAGAGATAA GCAAAAGTAG TTAACCTAAA AGATATCACC CTTTGGGGGG      240
TGTCAGAGGC AAAATAGAGT CAGTCATGCT AAGTCCCCT CTCGAG                      286

```

(2) INFORMATION FOR SEQ ID NO:1329:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1329:

```

GAATTCGGCC TTCATGGCCT AGGGGGATTG AAGATTTTTT GTAGGTGGAA GGCCTGAAGT      60
GCGACTAGAG GGCAATAAAT TCAAGGTGGG AGACTGTCTG CTGATGTTCA TTCCAGTGGG      120
CTGTTTATGG ACTGGGCTGT TAGTGCTGGA GTGGCTACCC TGGGCAACTA GTGCATTGG      180
ACTGGAATA CTTGGGGATA CAGTAGGCTT GGGAGTTGGG TTGGATTTAG AAATAAGTTT      240
AGTTGATACT GAAGGCTTAG CTGACAGAGA GGCCTTGGGT GAGGCAGAAG GCTTAGGCGA      300
GGGCAGGGGT TTAGGAGATG TGGCAGGTCT AGAATTCGAG                      340

```

(2) INFORMATION FOR SEQ ID NO:1330:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1330:

```

GAATTAAAGA GGGCGATATC ATCACACTCA CTAACCAAAT TGATGAGAAC TGGTATGAGG      60
GGATGCTGCA TGGCCATTCA GGCTTCTTCC CCATCAATTA TGTGGAAATT CTGGTTGCC      120
TGCCCCATTA GGATGTTATG CTGGCTGGCT CGCCTCTCTT TGAGCCAGAT AGTTACGGTT      180
AACCACTGCT TTGGCAATGC TGCTTATAAC ACATCCCAAG TGCAGGCCGC AGTGGTCCAC      240
GTCATCCAGC CCCACCAAGT GACTTTGGTT GACTTGTGGG CTCCACAGG ACTCGAG      297

```

(2) INFORMATION FOR SEQ ID NO:1331:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331:

```

CTCGAGTCCG CTGAGCTGAG AAGCACTGCG ACTTTTCCGT GACAGACCAA CGATAGCTAC      60
CATTTTGGCA CCAAGGCTAG AGCGCCGCTT TTTGCCACTG GTGCCCAAGG TGCCCACTGC      120
AGTGTGAGAC TGGCTGCCAT CATTCTTCTC CAGTGAGCAC ATGTCTCCAC TGATGCTGGT      180
GCTTTTGTG ATGTTCTTCC CTGATATGCC CATTTGTCTG CTTTGCATT TGGATGTAAA      240

```

GACACTGTCA GCCGATGGAT CATTAAAAGT GAGGACAAGA GTAAAAAGGA AAAGACAGAA 300
AATGCATTTT AGATAAAACA TTTGGAGTAT AATTTAGGCC ATGAAGGCCG AATTC 355

(2) INFORMATION FOR SEQ ID NO:1332:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 438 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332:

GAATTCGGCC TTCATGTGCG GTGAAGGTCC TGTGATTGTA CAGTTAGCAC ATTTTATATG 60
ACAGTATAAT CTTAAAAAAT AACATAGAAA CAGAAACATT AGAAACGTAA GTCACAGTTT 120
GTGAGTATGT CATTTTITAG GGAAAAATAA AATATAGTAA CGATTTATGA GGCCCCAAAG 180
TTTATATATA AAATGAAAAA GCTGTTTGGC AGTTAGGACT GACTGTAGCC TTCTGTCAAA 240
TCAGTCTTGA CAACTGTATA AAGACATTAT CATCACAAAT AGGGCTGCAT TTCACTCTGT 300
CTGTCAAATA CAATCAATAT ATATGACTTT AAGAAAAGTGT GACCATTTC CAGAGTGAC 360
ACCAACAAGA TGGTGGAATA GGAATTTTTC TTAACTTTTA CTCACCTCAC AGAAATCCAA 420
CTAGCAACTA ACCTCGAG 438

(2) INFORMATION FOR SEQ ID NO:1333:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333:

GAATTCTAGC CCCACCCACT TTCTCAGACA TCCCCACCGG AGGATCCCAT CAGTCACAAT 60
CCTCACTAAT TAGACCATTG AAATCCCCA AAATAAAAAA AGGGAAAGAG GTATAGACTT 120
ATCTTAAGGG TCTTAAGTTC TGGCATTITT CTATTTAATA ATATATATTG CTATAAAATG 180
GAATTACTAC CAAAATTAG AAAATCTTTT AGCAGAAGAT ACAGCCCTAA TCTTACCACT 240
CCAGTACAAT CATTATTGAC ATTTATGATG TACTTCGTTA TAGTATCAAA ACAATTCCAG 300
TATGTGAAC 309

(2) INFORMATION FOR SEQ ID NO:1334:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334:

GCGATTGAAT TCTAGACCTG CCTCGAGCTG CCGTGTITTT CATTITAATT GTGTGACATA 60
AAATGTAAAA TGTACCCTCT AAACCATTTT TTAGTGTCCA GTTTTGTGGT ATTAAGTACA 120
TTCACATTAT TGTGCAACCG TCCCCACCAT CCATTCACAG AACTCTTTCA ACTTGCAAAA 180
CTGAAACTGT ATGCATTAAG CAATACTAT CCCTTCCTTC TTTCTCTTC CCCAGAGCTC 240

GAG

243

(2) INFORMATION FOR SEQ ID NO:1335:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

```

GAATTCGGCC TTCATGGCCT AATTCTGGGA AAAGTGGAG AAAAATCTGA GGCCATCCAG      60
AAGGAACTAG AACAGACCAA GCAAAAAACA ATCAGTGGCG TTGGTGAGCA GCTCCTGCCC      120
ACAGTCGAGC ACCTCCAGCT GGAGCTGGAT CAGCTAAAGT CAGAGCTGTC CAGCTGGCGA      180
CACGTGAAGA CCGGCTGTGA GACAGTGGAT GCCGTACAAG AAAGACTCGA CGTGCAAGTC      240
AGAGAAATGG TGAAACTCCT GTTTCCGAA ATAGCTCGAG      280

```

(2) INFORMATION FOR SEQ ID NO:1336:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 281 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

```

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGAAT TCGGCCTTCA TGGCCTAGAC      60
TAATCTTACT GTAGAAATGA TGTGAGATTC TTGTTTGACT ATTTTAGAGC AGATTCGGTA      120
TCTAATGGGA TTCCATCTTG ATGTACAGAG CACCTTCTAC ATAATGAATT TTGCATTCTA      180
GATGGATGAA GCCTTTTACA CAGACAGAAT TTAAAGTATT GCATATTTCT GGAAGAAAAG      240
CATTGATCAC ATCCTCCTTA GATATTTAGT AATACCTCGA G      281

```

(2) INFORMATION FOR SEQ ID NO:1337:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:

```

GAATTCGGCC TTCATGGCCT AATATTTAGG TAAAAAGGTA AACTAGTACA CCTACCAGAA      60
AAGATAAATA TTAATTTATT GCATCTCTGA CATGAGAAAA AAAGCCTTTA TGTTTTACTG      120
TTTTTTTCTA ATTTTCTTTT TTCTTTTTTT TTTTCACATG AATGTTCTCG AG      172

```

(2) INFORMATION FOR SEQ ID NO:1338:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338:

GAATTCGGCC	TTCATGGCCT	ACTGTATTTC	ATAGTGAAGT	GTTCATAAAC	TAAAGAGTCA	60
TTGATTGGT	TTCCTGGCTA	ATTAAAATCT	GAATTCCATT	TGAAGTTCCA	TTGAAATCAT	120
GGTTTTACTC	TATAGCAGTG	GATGTTTTTT	CCCAACCTTT	CTGATATTTT	TTTCCTTCCT	180
GAGACAGGGT	CTTGCTCTGT	CACCTGGGAT	GGAGTGTAGT	TGCACCAAAC	TCGAG	235

(2) INFORMATION FOR SEQ ID NO:1339:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 148 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339:

GAATTCGGCC	TTCATGGCCT	ACTGTTTTTT	AAAGGCATAT	GTTGTTTTAT	TGTGCTTCAC	60
AGGTACTGTA	TCTTTTTTTA	CAAATCTAAG	TTTTGTGGCA	ACTCTGTGTC	AAGCAAGGCT	120
ATTGGCCCCA	TTTTCCCAAC	AAGCACGC				148

(2) INFORMATION FOR SEQ ID NO:1340:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340:

GCCTGTGTGA	AGTTTTGACT	TTAATCTACC	AGATCACTCC	TTCACCCTCC	ATAAAGATGT	60
CTGAACCTGA	CACTTCCTCA	GGATTTTCGG	GAAGTGTGGA	GAATGGAAC	TTTCTTGAGC	120
TGTTTCCAC	ATCCCTGTCC	ACGTCAGTGG	ACCCATCCTC	AGGCCACCTG	TCAAACGTCT	180
ACATCTATGT	GTCCATATTC	CTCAGCCTTT	TAGCGTTTCT	GCTTCTGCTT	TTAATCATTG	240
CCCCCAGAG	GCTCGAG					257

(2) INFORMATION FOR SEQ ID NO:1341:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 259 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341:


```

GAATTCGGCC TTCATGGCCT ACTATAAAGT ACTCTCGCTG GTATTGTCAG TATGTGTGTT      60
AACAAACAATA CTTGGTTGTA TATTTGGGTT GAAACCAAGC TGTGCCAAAG AAGTTAAAAG      120
TTGCAAAGGT CGCTGTTTCG AGAGAACATT TGGGAACTGT CGCTGTGATG CTGCCTGTGT      180
TGAGCTTGGA AACTGCTGTT TAGATTACCA GGAGACGTGC ATAGAACCAG AACATATATG      240
GACTTGCACC AAACCTCGAG                                     259

```

(2) INFORMATION FOR SEQ ID NO:1342:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342:

```

GAATTCGGCC TTCATGGCCT AGTCCTTGAC TCTGGAGTTT TACAAAGCAG TCACATTTC      60
AATAAAAGTC TGGGAAAGCA ACACATCATC GCCAACTTTT AATTTTGCTA AATAAGGATA      120
TTAGAAAAAG AATAGAAAAT TGCAGTCCCT TACTGTTTAA AGAAAAACCA AAAGAAGTTA      180
AAAAAAAAAC AACCTCATTA TGTTGTCTTT GTTTTGTGTT TGTTCCTTT CCTTGAAAT      240
CAGTGAAAGT TTGGTCAGCC ACCTCGAG                                     268

```

(2) INFORMATION FOR SEQ ID NO:1343:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343:

```

GAATTCGGCC TTCATGGCCT AGCCATTAA TATACTAAAA CAGTGTGTA AATTAACTT      60
GGTACAAATT GCCAGTCATC TCTAGATCAT TTAAGCATT TTAAGAATAT TTATTATCAA      120
TCTAAGTACA GAAGAATAAC TGCCAGCAGT GATTATTTGC TTTGGATTAG AGTTTTTAA      180
AATCCACCTC ACTGAAATGG TTATGTTTAT CACAGTTTGC AAGGTTTGTG TGTTTCTCGA      240
G                                     241

```

(2) INFORMATION FOR SEQ ID NO:1344:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344:

```

GAATTCGGCC TTCATGGCCT ACCCATTCCT TCCTTCCTGC CTGGCCTGGG CCCCTCCTGC      60
ACAGATGGCC TAGGTACCCA GCCTGGAGGC CAAGGCTGGA TTCCAGAGT CTGCCCTGGT      120
GGAGTGGGAA TAGCAGGTC TCTGCACTC AGGGGAGCTG CCCTGCAGGG CTTCCACAT      180
GTGCTCAGGC CCCTGTGCCA GGTCTGGTGA TGCTTCCTCC TTGCCTTTCA GGATCTCCTA      240
TTGCACAGCA GACAAGATGC ACGACAAGGT GTTTCATAC ATCGCCGAGA GCCAGCACAA      300

```

CCAGAGCCTC GAG

313

(2) INFORMATION FOR SEQ ID NO:1345:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

GAATTCGGCC	TTCATGGCCT	AGGCTTCTCT	TCTGAATTGA	TTGGTAGTGT	TGTTATTTTC	60
TTGTTATTCA	GTTTAACAAG	TACATAATCA	ACATCAGTGC	TTGGGAAGTC	AGGAGTACGA	120
GAGATAAATA	AGAAGTATAT	GATCTTTTCT	CTTATTTTCT	CTCAGTATAA	GTGGACCTG	180
TTTTCCCTT	CATCTCTTTT	TCTTCAAGAA	CATAATATCG	GCTGAAGTGG	AATGAGTATT	240
CAAATTGTCC	AAAAAATAT	ACAAGTGAGG	GAATTAATAA	AATTTTGT	AATTATAAAT	300
ATGTATATAT	TGGGGGCAG	TCTCGAG				327

(2) INFORMATION FOR SEQ ID NO:1346:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346:

GAATTCGGCC	TCATGGCCTA	AATCCTTGA	AATACAATGA	GACTCATCAG	AAACATTTAC	60
ATATTTTGTA	GTATAGTTAT	GACAGCAGAG	GGTGATGCTC	CAGAGCTGCC	AGAAGAAAGG	120
GAAGTATGA	CCAAGTCTC	CAACATGTCT	CTAAGAAAGG	TTCCCGCAGA	CTTGACCCCA	180
ACACTCGAG						189

(2) INFORMATION FOR SEQ ID NO:1347:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347:

GAATTCGGCC	TTCATGGCCT	AGTGGGCTTC	AGGAAAGCAA	AATATAAATA	TTATGGTTAA	60
AGAATTTATA	ATTAAGATTT	CACCCATAAT	TCTTAATACT	GTGTTGACAA	TCATGGCTGC	120
ATTGTCTCCA	AAAACAAAAG	AAGATGGATC	CAAAGATACG	TCTAAGGAAA	TGGAAAATCT	180
TTGGGGTATC	AAATCGATTA	ATGATTATAA	CACCTGGTTT	CTTGGTGTG	ACACGGCAAC	240
AGAAATAACG	GAAAAGCTCG	AG				262

(2) INFORMATION FOR SEQ ID NO:1348:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

```
GAATTCGGCC TTCATGGCCT AGTAATGTTA AAACAAACGA AATAAAAATA GAAGGAAAAA    60
CTTCTGAGT TTCAAAAACA ACAGACTAGT ACTCTAAAGA ACTCTTTAAA ACAATTAAGT    120
GTTAGGATTG CAGTTATGAT TGGATATTAT TTAATTCTGT TTCTGATGTG GGGTTCCTCC    180
ACTGTGTTCT GTGTGCTATT AATATTTACC ATTGCAGAAG CTTCATTGAG TGTGAAAAAT    240
GAATGCTTAG TGGATCTGTG CCTCTTATGC ATATGTTACA AATTATCTGG AGTTCCTAAT    300
CAATGCAGAG TTCCCTCCC CTCCGCGCTC GAG                                     333
```

(2) INFORMATION FOR SEQ ID NO:1349:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 553 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

```
GAATTCGGCC TTCATGGCCT AGGAAGACAG ATTTACAGAG GAGTGGGTTT CATGTTAAAT    60
GTCTGATTTC CTTGTGGGAT GCCCCACAA GGACACTAGG TTTTGTGGGC CAATGTGTTA    120
TGTGTGTATG TAGGCAAGCA GGAGGGGGTG GGTGGGCTTC TTTTITTTTC TATTTTTTTC    180
TTTTCTTTT TGGTTGTGGA AGAACCACGT TAACCCCTCT AATTCTTTA AAAAGACATA    240
AGGTTTGAAA AGGAGATTTT AGGAAGAAGC AAAAGAAAAA AAATGGGATA CATATATTGC    300
ATCTGTAATC CAATCAAGCT GTCAGTGAAG ACAAAGTTGA TCTCTGTTCT CACCAGTTGA    360
CACACTCATC AGGCTATAGG TCAACTCTAA GTGTGGTGAC AGGTGATGGA CTCATGCCA    420
ATTCTGATAC TGAATTTTCT TTTGCTTATT GAAGCTTCAT TTTGTGTGTT TTAATTATGA    480
AAGTATAGTA ACACCTACCA TGCATACCAA AGCAATATCA ATATTTTCAA ATGCATCTTC    540
CCCCATTCTC GAG                                     553
```

(2) INFORMATION FOR SEQ ID NO:1350:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350:

```
GAATTCGGCC TTCATGGCCT AGGTTTTTGT TGTTTGTTTT TAAAGGAGTT AGACATAGCC    60
TAACAACTG GAAATTGACA TTTCCATCTA TTTTCTCCCC TTTTGAAGCT AAATATGTCT    120
TTGTTATTTT GGTTCCTAGT CCCATTACT ACTTATTTTC TGATAGTTCA TCCACAGCAA    180
CTTCAGTCAG TTAGCTCACT AGTCTTATG GCTAGAGATT CCGCCAGTTT TCCCTAAAAA    240
CTCGAG                                     246
```

(2) INFORMATION FOR SEQ ID NO:1351:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351:

```

AAAGAAAAA TAAAAAATAA AAAAAAATAA GGAAGTGTA TGTGAGACAC ACAAGAAAAAG      60
CAATCAGTG TTGTAAGCTT AAAGTACAAT TTCAAAGGTC ATTACCAACA GCAGGGTTTT      120
TTTTATACCT TAAAAACATT ATGCTACATA TCATTGCCAT TTTCATATT TGGGGTTTTG      180
CTACTCTTAT ACAATGGAAT CAATGGAAAT GTCATCCAGC CAGATCTCGA G              231

```

(2) INFORMATION FOR SEQ ID NO:1352:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352:

```

TGAATTCTAG ACCTGCCTCG AGTTGCTCCC AGGAATAGTC CAAAGGAGCT GCTCTTGCCC      60
CTTTATACAC AAGCGCCAGC AACCAAAACC CTCCTCCTG GCAATAAGGC CTCACTATAG      120
TTGCCCTCAT GCTTCCTAAG CTCTCTCTTG CTCTAATAAC TCTAATTCTG GGCCAAGCCC      180
AAGAGTGCCA TTCTTTCTTC CTAGCTGGGG ATGGAAAGCT GAGAGGGGCA CAAGGAGGGC      240
AAAAGTATCA CCCTATCGAG              260

```

(2) INFORMATION FOR SEQ ID NO:1353:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 482 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353:

```

GAATTCGCCT TCATGGCCTA CTTTCAAGT GAATGATTTG GTGTTTGAAC CTTCTTGATT      60
ACCTTAAGAG GGAAAAATGA AGGAGAGGAG GGAACCATCA TCACATACCT TTACAGTTGT      120
GGAATGTTAG CCCACTATAG TGTTTAACTA AGGAAAATCT AATATAATAC ACTCCCAAGT      180
GATCTGAAAT GATCCGCTAT TCAGAATTCC AGAGAAAGAC ATATCCCTGC CAGAAGGGTG      240
TCCTTCATAA CCAAATTGG TCTTCAGTCT GGTGCGTGCA TACTCAAACA GGAATCACTT      300
CCCTTAAGGA ACCTAAGGTA TGCAGTTGAG ATCAACTTAT TCCTTTTGA TTTGTCCCTT      360
TAAAGCATCA ATCAGACGTG AATGCATCTT GTGACTTGA GTTACTAGTA ATATTGAAAT      420
CTGAAACTTG GGGGATCTTT GAAGACACAT GGGATTAAAA GCTGCATAAT ATACATCTCG      480
AG              482

```

(2) INFORMATION FOR SEQ ID NO:1354:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354:

GAATTCGGCC	TTCATGGCCT	AATACCCAAA	ATTGGCATGA	CTACTTATAA	AATAGTGCCT	60
CCCAAATCCT	TGGAATATC	GAAAGACTGG	CAATCAGAAA	CCATAGAGTA	TAAAGATGAT	120
CAGGACATGC	ATGCTTTAGG	GAAAAAGCAC	ACTCATGAGA	ATGTGAAAGA	AACTGCCATC	180
CAACAGAAAG	ATTCTGCTAT	TTCTGAAAGC	CCAGAAGAGC	CACTGCCAAA	CCTTAAACCG	240
AAGCCTAACC	TGAGAACAGA	GCATCAAGTG	CCCAGTTCTG	TGAGCTCACC	TGATGATGCC	300
ATGGTTAGTC	CTCTGAAACC	TGCTCCCAA	AATCTCGAG			339

(2) INFORMATION FOR SEQ ID NO:1355:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 203 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355:

GAATTCGGCC	TTCATGGCCT	ACTTTTAGAT	GCTTTACATG	CATAAATTCA	AATAATACAT	60
TAATAACCTT	CCATACATCT	TTCTTTGTGT	ACACGTTACT	ATTTCTGTAA	GATAGATTTT	120
TAAAGTGGA	ATTTCTAGGC	CAAAATGATT	ACACTTTTTT	TGTTTGTTTG	TTTTTTTGT	180
TTTTTGAGAC	GGAGTGTCTC	GAG				203

(2) INFORMATION FOR SEQ ID NO:1356:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 516 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356:

GAATTCGGCC	TTCATGGCCT	AGGAGAATCA	GGCAGGGAGG	TTGCAGTGAG	CCGAGATGGC	60
AGCAGTACAG	TCTAGCTTCG	GCTCGGCATC	AGAGGGAGAC	CGTGGAAGA	GAGGGAGAGG	120
GAGACCGTGG	GGAGAAGGAG	AANGAGGGGG	AGGGGGAGGG	GGGGAGAGGG	AGAGGGACAA	180
TGATGTCTTG	CTGTAGGTAT	TCTTCCCAT	TGAATTTTT	TCCTCAGCAT	TATTTTTTTT	240
AACATCATTC	AGTCTCCTCT	TATACTACAC	TTGGATTGAA	TTTAATATCT	CATGAAGAAA	300
AAACATTTCT	ACTTTGAAGC	ATGTGAATTA	GCATGTTTTT	ATAACAGCTT	TATTGAGATA	360
TAATTTACAT	ATATAAATAA	ACCGTTTAAA	GTGTATAAAT	CAGTGTTTTT	TAATGAGATA	420
TAATTTACAT	ATATAAATCA	ACCATTTAAA	GTGTATAAAT	CAGTGTTTTT	TAAATATTCT	480
ACAAATGTTGT	ACGACCGTCT	TCTCAGTCAA	CTCGAG			516

(2) INFORMATION FOR SEQ ID NO:1357:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 405 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1357:

```
GAATTACTAA TCAAGAAAAA ACAAATCAC AAATCACTAC CAAAGCAGTT CATTGTCAAT    60
AATTTTTCCTTCTGATTT TTGTTTACTT TTTGCCAACC CTGAGCATACT ATCCAAGTTG    120
CCCTAAATAT ACGCACACCT GAGGTGTCTT TTATAGGAGC TTTATGGTTG CAAGTTTGTG    180
GTATAATCTT TAATCATTTT GAGTTGATTA TTGTGTA?CT AGTACCATAA GAGTCCTGTA    240
TTATTCTTTT GCATATGGAT ATCTAGTTT? GGAAATCTTC CCCGTTGTGT CATTITGGTG    300
GTGTTT?GAA AAATGTGTTC ATTCCATATA AATTTTGT?T TATTATCGAG CACATTCATT    360
TTGCTCACTG GTCTGTGTTT CTCTGTGTAC GCCAGTAACC TCGAG                      405
```

(2) INFORMATION FOR SEQ ID NO:1358:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 328 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358:

```
CTCGAGTCTG GCTTTGTTTC AAAATGATTA AGATTAAATG ATGAAATAAT ATTTTATAGC    60
CACTGCATTG GATACTTGGG TTGTTTTTCA AGCATCTTCT TATGACTAAA TCTTCTGTTT    120
CATTCTGTTT TAAATCTAAA AAGTAAATG ATGGTCACTT GGAATCTGCT CTATATTTTA    180
ATTATAGTCT CTTCTGTTTA TAAACAATAA CTTACACATA TTTTTCATAG TTTTAAGTAA    240
AGATTAAATA ATGCCATCTT AGAAAGGATC TGTTTAACCT ATATTATAAA AGTTAGATACT    300
ACAATTTTAG GCCATGAAGG CCGAATTC                      328
```

(2) INFORMATION FOR SEQ ID NO:1359:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 250 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359:

```
CTCGATGGCC TAAGGCAGTC TCCTGGAAGC ATGACATTGA TGCCCTGGGC TCACCTCTTT    60
GTTTTGTTTT CCTTCCACTT TAGCGGGAAC CACATCTTCA AGGGCCGTGC TGCCGGCATA    120
GCAGTGAATG AGAACGGCAA AGGCCTCATC ACAGGTACGG ATGGGAACTG CCTGGCACCT    180
GGCAGCCAGG CCAAGGTCCC CTGGCGTCAC CCCCAGCTT CAGGACCTCT AGGCCATGAA    240
GGCCGAATTC                      250
```

(2) INFORMATION FOR SEQ ID NO:1360:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 206 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360:

```
GAATTCGGCC TTCATGGCCT ACGATTCTAT TTCCTTATCT GCTTGCAGAG CTATTTAAGA      60
ATCAATGTCT TATTTTTCCT GAGTCCTTTA TAACCCCTATT CATATTTTCA ATTGCTGATG      120
CCTCTTTGAG CTACGAGTTC TACTTTGTGC ATAACGTTGA GGAAATTTCTA CGTTTACTGT      180
TTCTCCTTAC TTCACTCATC CTCGAG                                         206
```

(2) INFORMATION FOR SEQ ID NO:1361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361:

```
GAATTCGGCC TTCATGGCCT AAGAAATCAA CGTTGAACCC TAATGCTAAG GAGTTCAATC      60
CTACAAAGCC TCTGCTGTCT GTGGTGAGCT GGGACAGGAG AATGTGGACT TTGGTTTCTG      120
TGGGGAGACT TGGGCAGTGC TTATAGATGA ATAGGGGGAG GAACACTTCA CTCCAGGAC      180
CACTTGCCCTG GCAGGCAGTG TGAGGAGATG TCATAAAAT GTAAGGATGG CACCTTTGGG      240
GCTGGCTTGG GGAAATGGA CTCAGGCTCTC TAGGTTTGGG TGATCAGGGA TCCCAGTGAG      300
TCTGATGAGG GGTTAACAGG CTTTCTTTG GTTCTTGGCA TTGGCTGAG GGAGTATTGG      360
AGTGGGGATA GCTCGAG                                         377
```

(2) INFORMATION FOR SEQ ID NO:1362:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1362:

```
GAATTCGGCC TTCATGGCCT AGTTAAAGGC AAGTATGTCA TATTACTGAG GCTACAAGTT      60
AGTCAGCAGA TGAGTGCCAG TCCAGCCTTT TCTGGTATGT TATTGTTAGA AATATTGAGT      120
TCTAATGTTA CATCTGAGGA AGTATGTAAT TTGAGAATTG TAACCTCTAA GGGATTCACT      180
GCATCATAGC TATGCCTGTA TGGAGTCTAA CATATGACCA ATACCAACCC ATAATCCAGC      240
ATTGAATTCT AGACCTGCCT CGAG                                         264
```

(2) INFORMATION FOR SEQ ID NO:1363:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:

```

GAATTCGGCC TTCATGGCCT ACCCCTCCCC TAGTTCAGT CCAGGTAAAC AAAAATTGAT      60
TCTATTTTTC CAAAACACCA GCCCCTTCAG ATGGCCTGGT TAATCTTCAT TAACATGTTA      120
TCTTCATTAA CATGTTTATC TTCATTAAAC TATTTCTCAG TGATAAGAAG GGCCCAGGGT      180
TCAACATCCC ACTTTGCATC CATGCAGACA AGGGCTGTGG GAAGCTGTAA AACTGAAGAG      240
GCGGTGAATC CAGGAGGGAT TCCCAGATA TCCGTGAGT GGTGTTTGAC TTCTTTGAAC      300
ACGTCTTTCC TTTACTTTAC ACTTCCACTC GAG                                     333

```

(2) INFORMATION FOR SEQ ID NO:1364:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364:

```

CTCGAGGGGT CATGTTGTTG GGGAGAAAGA GACCACATCA CACACAGAGA GAACAAGTCT      60
GTATTAGTTG CTTTGTCTAC ATAACAAACC ACTCCAAAAT TTAGTGGTTT AGAACATCA      120
CCTATTTAGT TAATGATTCT CTGGGTGCA ACTTGGTCTG GGATCAGCTG GGCAGTTCTT      180
TTGCTGGTCT CAGCTGGGTT CAGCTGCCTA TCAGCTAGGG AGCTCTGTTT CAGAGGTTGG      240
TTGGCTATGG GTGGCAGGGA TCAAGGATGA CGGAGCCATG TGTCTCTTTT CCCTTTATTA      300
CCCAGCAGGT TAGCCAGAT CTTTTCCTTT TCTTTCCTAG GCCATGAAGG CCGAATTC      358

```

(2) INFORMATION FOR SEQ ID NO:1365:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1365:

```

GAATTCGGCC TTCATGGCCT ACTTGTTTCAG GGTATGGGGC TAGGATGAGA GAGAATNCCA      60
CAGAGTATGA AGGAAGAGTG ATAGATCCAG ATGAGATACA GCTCAGAGTG CCACGCCCCC      120
AGAAAGAGGA ATCAGGCAAG TACTGTCCCA AGGCAGCTGG AGGGTGAGGG CTGAGTGCCC      180
TGGCTTCTTC ACTTGGGGAG ACCATGGGTC TCTGTAGAAA TTCCAATATA AAGGCAGGGA      240
AATTTGACTG CATGGAGTCT TCAGGTAGAA ATGTTTCTCT TGCCTAAATT CA              292

```

(2) INFORMATION FOR SEQ ID NO:1366:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1366:

```

GAATTGAGCA AGATACCTGG GTCATGATCT CTGAACAGGG TGAGAACTT TATAAATGA      60
TGTGCAGACA AGGAAATCTG ATCAAAGACA GAAAAGAAA ACTGACTACG TTCCCTAAAT      120
GCTTTCTTGG AAGCGAATTT GTGTCATGGC TGTTGGAAAT TGGAGAGATT CACAGGCCTG      180

```



```

AGGAAGGCGT GCACTTGGGA CAAGCATTAT TAGAAAATGG AATCATTAC CATGTTACTG      240
ATAAACATCA ATTCAAACCA GAACAGATGT TATATAGATT TCGCTATGAT GATGGAACAT      300
TTTATCCAAG AAATGAGATG CAGGACGTTC TCGAG                                335

```

(2) INFORMATION FOR SEQ ID NO:1367:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1367:

```

GAATTCGGCC TTCATGGCCT ACTTTCCTCTG TTTGCCTTGA CCTTCTCTTT TCATGTTAAA      60
GCCTTTCCTC AAATGTCTGA TTACCCTTGG CTGCCCGTCA TTTAAGAAAG CGCCACTAGT      120
CAGCTCATCG GAAGCTGTGA GGGAGAGGGC TGCATTTGGT CCTGCCAGGT GGAGGAACAC      180
TCAGGCATCA GTACTAGGAG GTCTTTCCTC TCAGCCCATG GGATTTCCTT AGAGTCCTAC      240
ACGGCTGGGA TGAGGCACCT GGGTGCTGAG TAGAGGAAGG GAGTCATGGG TCAGTCACCC      300
TGTATGCAGA TTTTCACACA ACCCCCTCTC TCCAGGACAC GCCTCGCCCC CCACCTAAG      360
TAATGCAGAA CCCAATCTC GAG                                383

```

(2) INFORMATION FOR SEQ ID NO:1368:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1368:

```

GAATTCCTAT GTGACTGCGA TGGATCTCTT TGTTCCTGTT TGTTCATTI TGTTCCTG      60
AGCCTTGATG GAATATGGAA CCTTGCATTA TTTTACCAGC AACCAAAAAG GAAAGACTGC      120
TACTAAAGAC AGAAAGCTAA AAAATAAAGC CTCGATGACT CTGGTCTCC ATCCTGGATC      180
CACTCTGATT CCAATGAATA ATATTTCTGT GCCGCAAGAA GATGATTATG GGTATCAGTG      240
TTTGAGGGC AAAGATTGTG CCAGCTTCTT CTGTTGCTTT GAAGACTGCA GAACAGGATC      300
TTGGAGGGAA GGAAGGATAC ACATACGCAT TGCCAAACTG ACTCGAG                                347

```

(2) INFORMATION FOR SEQ ID NO:1369:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1369:

```

GAATTCGGCC TTCATGGCCT ACCATTTTCT ATGAGCAGAG GAGAGTCACA GGGCATCATG      60
TGTTAGGAGA AAGAGGCTGG ACTTTATCTT GTCAGTAATG CTGGATGATA CAATAAGGGT      120
AGGGCTCAA AAAGTAAATG TAAAAATGAT ATTTGGCACA CATTTGGGTG AATAGAGGCT      180
GGAGAAAGGG AACCAAGTCA CTATGTATTG GAATAATTCA AGTATAGGCC TGGGATACTC      240

```

GAG

243

(2) INFORMATION FOR SEQ ID NO:1370:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1370:

```

GAATTCGGCC TTCATGGCCT AGAGGATTAC TTATTTCTCA GCATTCATCT GGTAAC TTAA      60
GCAGCATGAA GCAAGAGTTG CACTTTAAAA AATGACAAGA AAATAGCTAT TCATTTAGTC      120
GACAGAGTAA GGCCCATCTC ATTTCCAGGA TCACTAGTTT CTGCTTATGA CGGGGTGAGC      180
ATCCGCCAGC GCGGTGATTG GGAGGCGCCC CTGTGCTTTT AGGCTGAGGC AGTGCCCAT      240
GCTGCAGTGC CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1371:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:

```

GAATTCGGCC TTCATGGCCT AGTGTAGCAA GCTTCCCTT TGGGAGGGAT GTGAGAACAG      60
AAGACTGAGG ATTGTCTCTA ACTCTAGGAT TCTTTGATGA TTGATTGGAT TGGGGTTTTG      120
TGTGTGTCT AATATTACGG ATGCTAAAAT GCCTGTA CT CCAAGGTGAT AGCCACCAAT      180
AACCATACAC GTACTAGTCA TCCTAGAAGT GTTTTTATTT CTTCTGTGTTG TTATCTTCCC      240
TACCCCTAGG GTTGGTGTCT GTTTCCTGCT ACTTCAGGTT GGTTTCCAC TGGGAGGCTT      300
CTGCTGACAG AAAGCCCCAT GCTTTGCTCG AG

```

(2) INFORMATION FOR SEQ ID NO:1372:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:

```

CTCGAGGGCA ACTGCAGAAG AAAAGATCAG TGAATCTGAT GACATAGCAG AAGAACTAT      60
CTAAAGCGAA GAAGACAGGA AAAAAAGCCC CAATGTGAAA TGAACAGATC ACCAGTGAGC      120
TGTGGAACAA CCTATATGGG TTATAGGAGA CCCTAAATGA GAGAACAAGG GACTAAAAGA      180
AGGATTTAAA GAAATAATAG TACAATTTT TCCAAGTTT ATGAAAACCG ATTGAATTCT      240
AGACCTGCCT CGAGGCAGGT CTAGAATTCA ATCGC

```

(2) INFORMATION FOR SEQ ID NO:1373:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373:

```

GAATTCGGCC TTCATGGCCT ACAAGACCAT CCTGGCCAAC ATGGTGAAAC CCTGTCTCTA    60
CTAAAAAATA CAAAAAATT AGCCAGGCAT GGCAGCGTGT GCCTGTAGTC CCAGCTACTC    120
AGAAGGCTGA GGCAGGAGAC TTGCTTGAAC CCAGGAGGCA GAGGCTGCAG TGAGCCGAGA    180
TCGCGCCATT GCACTCCAGC CCGGGCGACT GAAGAGACTC CATCTCAAAA AAAAAAAAAA    240
AAAAAGATGA GCCTTTTCTG GGAAAGTGGA AAAGACAGAG AAGCCTCCTG ACAGCCAAGG    300
AGACCAGCAG CCAGTAGAGC AGGTGTTGTA ACAAGGCCGA GGCCCTCGAG    350

```

(2) INFORMATION FOR SEQ ID NO:1374:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374:

```

GGAAAAATCA AGGAGACATA TTACCACCAA AAGAACAATA ATTTCCTAGA AGCTGCAAAT    60
AAATAGAGAC TATACACTGC CTTACAGATA ATTTAAAGTA ATTGTTTTAA GGAATCTCAG    120
TGAACITCAA GAAAAATACAG AGAATCAGTT CTATGAAATC AGGGAAACAA TAAATCAACA    180
AAACGATAAA TTTAACAGGT TGAAATCACT AAAAGAACCA AACAAATTTT GGGGCTAAAG    240
AATACAATGA ATGAAATGAA AAATACTCTC GAG    273

```

(2) INFORMATION FOR SEQ ID NO:1375:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375:

```

TGTGGACTAA AAAAGATGCT GGGAAAAAAG TTGTTCCATG TAGACATGAC TGGCATCAGA    60
CTGGAGGTGA AGTTACCATT TCAGTATATG CTAAAAACTC ACTTCCAGAA CTAGCCGAG    120
TAGAAGCAAA TAGCACATTG TTAATGTGTC ATATTGTATT TGAAGGAGAG AAGGAATTTG    180
ATCAAAATGT GAAATTATGG GGTGTGATTG ATGTAAAGCG AAGTTATGTA ACTATGACTG    240
CAACAAAGAT TGAAATCACT ATGAGAAAAG CTGAACCGAT GCAGTGGGCA AGCCTTGAAC    300
TGCCCTGCAGC TAAAAAGCAG GAAAACTCG AG    332

```

(2) INFORMATION FOR SEQ ID NO:1376:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376:

GAATTCGGCC TTCATGGCCT AGGCTTCAGC ASCTTCCTAC GATCAGCCGA AGAAAGCAGA	60
AGCTCTGGAG GCTGCCATCG AGAACCTCAA TGAAGCCAAG AACTATTTTG CAAAGGTTGA	120
CTGCAAAGAG CGCATCAGGG ACGTCGTTTA CTTCCAGGCC AGACTCTACC ATACCTTGGG	180
GAAGACCCAG GAGAGGAACC GGTGTGCGAT GCTCTCCCG CAGCTGCATC AGGAGCTGCC	240
CTCTCATGGG GTACCCTTGA TAAACCATCT CTAGAGAGGA CATCCCTGCT GGGCTGCTGT	300
GCAGAGTATA AGATTTTGA CTGTTCATG TCCCCTCTCA CCCCTCGAG	349

(2) INFORMATION FOR SEQ ID NO:1377:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 437 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:

GAATTCGGCC TTCATGGCCT AAATATGTTG AAATAGGTTA GAAAAGGAGG TGAATATTAT	60
GGGCTGTTGT CATTGTGAAA TTCTGCAGTA ACTTCAGCGT TGAGGGTTTT TTTTGTTTT	120
GTTTTGTGTT TGAGTTTTCG TTAAGGAAAT CAAAGAGTTG TTAAGTCTGC TGTGGGTGTT	180
TAAGAGACAG GATCTCACTC TGCTGCCAG GCTGGAGTGC AGTGCAGCCA CGAATGCCTG	240
GGCTCCAGGC CCTCCTGAGT AGCTAGGACT TACAGGCATG CACCACCACA CCGATTTTTT	300
TATTTTITTA TTTTATTTT TTTTAGTTTT TAGAGGTGGT GGGGGGGTCT CACTGTGTCT	360
GCTTCTGGGC TCAAATGATC CTCCTGCCTC AACCTCCCAA AGTTCTAGAA TTACAGAGGT	420
GAGTCAACAC ACTCGAG	437

(2) INFORMATION FOR SEQ ID NO:1378:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 267 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378:

GAATTAAAGC ACTGCCTCTA TTCAGGCTGC CGAGGCACTG CTTTAATTTT TTGAAAGATT	60
CACCGCGTCT TCTTGATTTC CAAGAAAAAT CCCGTTAAGA ATTGAGGGGC TCTCTTCTTC	120
CCCTCCTGAC GTGAGTGTA CCACTTCCTT GGTATGTCTC CTTTCCTTTT GGCCTACATC	180
CTTTGTCTGT TAGGTGCTTC CACATCCTTA TGTCTTAAAT GGCCAAAATA CGTCACCCCC	240
ACTGCCAAAA CAAACAGATC ACTCGAG	267

(2) INFORMATION FOR SEQ ID NO:1379:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 305 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379:

GAATTCGGCC TTCATGGCCT AGAGGTGACT AGAAGCGAAG ATGGAGGTGG CGCAGCACCT	60
CATCCCAACT CATGCCACCT GGGGAAGCAG CTCAGGCCT TTCTGTTGTA ACCTCAGCAG	120
AAACTTTGGG GTTTATCCTT TATCTTGCAC ATGCCCCAGG GAGGTAAAGG GACTTGCCTA	180
GGTTCATGTA CAAACTTTCT GCTTCCAGAG CAGGACTTTA TTGGGACACC ATAAGGTTGA	240
GGCTGGGAGG TACCCAAGAA TTCCTGGGGA TGGTATGTCA TTCACTGTGG GTAGAGGGGC	300
TCGAG	305

(2) INFORMATION FOR SEQ ID NO:1380:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380:

GAATTCGGCC TTCATGGCCT AGGCTTGGTT GCCTCTGAAA GGAGGGAAAG TCTCTTGGA	60
AATTATCTCT TTTGTGCTGT TTGCTGTTTC TCTGCTACCG TCTTTGCAGT TCTCCTCTCA	120
CTGGTTGCAG GCTTTCATAG TAAGGTTTGG CGAGAAATGT TCCAAACATC ACATTTTGGA	180
TTCTAGGCTG TCACCCAGG CTCGAG	206

(2) INFORMATION FOR SEQ ID NO:1381:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381:

GAATTCGGCC TTCATGGCCT ACTCCTCGAT GCTGATTCAT ATCCTACTGC CCATGGTTTT	60
CTGCGTCTTG CTCATCATGG TCATGTGCTA CTTGAAAAGT CAGTGGATCA AGGAGACCTG	120
TTATCCTGAC ATCCCTGACC CTTACAAGAG CAGCATCCTG TCATTAATAA AATTCAGGA	180
GAACCTCAC CTAATAATAA TGAATGTCAG TGA CTGTATC CCAGATGCTA TTGAAGTTGT	240
AAGCAAGCCA GAAGGGACAA AGATACAGTT CCTAGGCACT AGGAAGTCAC TCACAGAAAC	300
CGAGTTGACT AAGCCTAACT ACCTTTATCT CCTTCCAACA GAAAAGAATC ACTCTGGCCC	360
TGGCCCTGC ATCTGTTTTG AGAACTTGAC CTATAACCAG GCAGCTTCTG ACTCTGGCTC	420
TTGTGGCCAT GTTCCAGTAT CCCCAAAGC CCAAGTATG CTGGGACTAA TGACCTCACC	480
TGAAAATGTA CTCGAG	496

(2) INFORMATION FOR SEQ ID NO:1382:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382:

```
GAACTAGAC AAGAAATCTC AAGCCATGGA GGAGCTAAAA GCAGAGCGAG AAAAACGAAA      60
GAACAGAACA GCTGAGCTCC TTGCCAAAAA ACAGCCATTA AAAACCACTG AGGTCTACTC      120
TGATGATGAA GAGGAGGAAG AGGATGACAA ATCCAGTGAA AAGTCAGACC GCTCATCAGC      180
AACATCATCG TCTGATGAAG AAGAGGAGAA AGAAGAGATC CCTCCCAAT CCCAACCAGT      240
TTCCTTACCT GAAGAATTGA ATCGGGTTCG ATCTCTCGAG                                280
```

(2) INFORMATION FOR SEQ ID NO:1383:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1383:

```
GAATTCTAGA CCTGCCTCAG TCTCCCCGTC ATGCTCCCTC TGCCCCGCC TCAAAAAAAA      60
AAAAAAAAAA AAAAAAACA ACAGCACCTG TCCAGGCTTC CTTAGGTACA TCTTCTTTGT      120
ATCCATTGGG AGGCTCTGAG ACTGGCCCCA CTGGTCCTA AGAATCCCAA GGTCTTTGGG      180
AGCGTCCAGC ATGTTAATTA GCGTATCATT ACATACTGCT ATCCCTTTCC ATTTCTTTT      240
GTTCCATCAC TCTCCTCTCG AG                                262
```

(2) INFORMATION FOR SEQ ID NO:1384:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 458 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1384:

```
GAATTCGGCC TTCATGGCCT ACAGATTATC TTACACTGAA CTGATCAAGT ACTTTGAAAA      60
TGACTTCGAA ATTTATCTTG GTGTCCTTCA TACTTGCTGC ACTGAGTCTT TCAACCACTT      120
TTTCTCTCCA ACCAGACCAG CAAAAGGTTT TACTAGTTTC TTTTGATGGA TTCCGTTGGG      180
ATTACTTATA TAAAGTTCCA ACGCCCCATT TTCATTATAT TATGAAATAT GGTGTTACAG      240
TGAAGCAAGT TACTAATGTT TTTATTACAA AAACCTACCC TAACCATTAT ACTTTGGTAA      300
CTGGCCTCTT TGCAAGAAT CATGGGATTG TTGCAATGA TATGTTTGAT CCTATTCGGA      360
ACAAATCTTT CTCCTGGAT CACATGAATA TTTATGATTC CAAGTTTGG GAAGAAGCGA      420
CACCAATATG GATCACAAC CAGATGGCAG GACTCGAG                                458
```

(2) INFORMATION FOR SEQ ID NO:1385:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385:

GAATTCGGCC	TTCATGGCCT	AAGTTTTCAT	AATCTTTCTA	AGCAAATAAA	TTGAGCATGC	60
AGGTTTTTTT	TGCTTTCAGT	AAGTATGTTA	AAGATATTTA	TTGTACTTTG	GTTTCTTTT	120
CTTTTTTTTT	TTTTTTTTTT	TTTGAGACTG	AGTCTCTGTC	ACCCAGGGTG	GAGGGCAGTG	180
GCCCAACCTC	AGCTCACTGC	AACCTCCGCC	TCCCATGTTC	CAGTGATTCT	CCTGCCTCAG	240
TCTCCCGAGT	AGCTGGGATT	ACAGGTGTGA	GCCACCACGC	CCAG		284

(2) INFORMATION FOR SEQ ID NO:1386:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1386:

GAATTCGGCC	TTCATGGCCT	AGTAGTTGTT	CCATGCTGTT	GTTTTTTGTT	TTATCTTTCA	60
TTGCCTTTCC	CTCTGCAGTC	AACATTATGA	CCTGGGGACT	CCAGCATCCT	TCAAGCAAGC	120
CATTTCGAA	GAAGGTGAAA	AGAAGCCAGG	ATGATTGGCA	CCTCCTCCTC	CTCCTCCTCT	180
TCTTCCTCTT	CCCTTGCCCA	GCCCCCTCCT	GTGCGTGTGT	TTCAGACAAC	ACAGGAGCCA	240
GCACAGGAGT	GGAAAATCCT	GTAGCGCAAC	TCGAG			275

(2) INFORMATION FOR SEQ ID NO:1387:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1387:

GAATTCGGCT	TCATGGCCTA	ATTGAATTCT	AGACCTGCCT	CGAGCCTCCA	AAAAGAGTAA	60
ATAAATAAAA	ATAAAATTGC	CTTTAAACAG	AAACACACAT	AAAACAAAGT	TATATATTGA	120
ACCTAACCTT	GTATTTCCTC	TGGGAACAGT	GGTTCAGTAT	TCAATAATTC	AGGATTGCA	180
GCAGCATAGA	ACTTAATGTA	ATGAGAGTCA	AGTATATATT	TCCCAGAACC	CTAAAACTAC	240
TGCATATGTG	AACATATCTT	ATTCATTGAT	TATGTGGGCA	TATAGTGAAA	CTCGAG	296

(2) INFORMATION FOR SEQ ID NO:1388:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1388:

GAATTCGGCC	TTCATGGCCT	ACAACCTGTT	CTAGCTTGTC	ATCCCTCAAA	GTTGGGTCAT	60
ACGTTAGTGC	TAGATACTAG	AAATTTTCAC	TTTTCCACTG	ATCAGAGAGA	CAGACATTAA	120

AAACAAAAAT	AGAAGAAAGG	AAAGCTTTCA	CCCTGCAGCT	TCTTAGCAGG	GAACAATTGT	180
CTTGCCAAAA	CTTTTTTCCC	TTTTCTCTCC	CATTTTCTTT	TACCCAATCC	CTTCTTACTC	240
CTTGCCAGTG	TGACCATGCG	CATTGGTTTA	AAAAGATATT	CTTTCCTAAT	CAGGGCAAGA	300
CAGGCAAGAA	TTTTAAAAAA	GGAAGGGAGG	GAGGGAAGAA	GGGAAGGAAA	ATAAATCCTT	360
TATTTTTTTA	AACCTATTTG	AAACCTCTTA	AGAAAATTCC	ACAATAATCA	GGATTTCTGT	420
AAATATTGTC	AATATATATG	AACATATTTG	AAAAACTACA	GTACAGTAT	ATTTACATTT	480
TTGGAAACTT	TTCTTCAGGG	CCAAGTAACA	TGTTGTATCT	TCCTTTTTCG	TTGTGGGGGC	540
TACTCGAG						548

(2) INFORMATION FOR SEQ ID NO:1389:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389:

GAATTCGGCC	TTCATGGCCT	AATATGTTCT	TCACAGGGAT	GAGTCCTAAA	TATTTATCTT	60
CAGCCATGAC	ATTTTCTCTG	AATTCAGAT	TTGCATATCC	AACTGCCAAC	TTGATATCTC	120
ACTTGGAAGA	ACATCATCAC	AAACCTAACT	CATCTGAAGT	TGGCTTCACA	TTCTCCTCCC	180
CTATCACTAA	CTGCCTTTCC	CACAGTATTC	CCCAATTCGG	TACATGGTAC	CACCAATTAT	240
CCAGTTGTTT	AGACCTAAAC	CCTTCTAATT	ATTCTTTTTC	CTATCGTTAT	CCCACATACC	300
TCGAG						305

(2) INFORMATION FOR SEQ ID NO:1390:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390:

GAATTCGGCC	TTCATGGCCT	ACTGGGTTAT	TATTCTATTG	CGTTGATCTA	GCTAGTTTIA	60
AATTTTCTAC	CTTTTCTACC	TGTTTTTGTT	TAATAGTTTA	CTGTTTTTAT	CTGAACAAAA	120
TTCTCTTTTC	AATAGTTGAT	CCTGCTGAAT	GTCTTCCCGT	AGCATGGGGC	TTCTCAGGT	180
AACCTGGCAT	TTTGGTTTGA	ATAGAAGGCT	TTTTATTGTC	CTTTTTTTCT	TTTTTTATTT	240
TGAGATATTT	ATCTTTTCTT	TATTTATTTA	TTGAGTCGG	AGTCTACTCG	AG	292

(2) INFORMATION FOR SEQ ID NO:1391:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391:

GAATTCGGCC	TTCATGGCCT	AGGCGATCGT	ATTAATTCTC	AAGAAATTTT	CAACAAATAC	60
------------	------------	------------	------------	------------	------------	----

CACCTGGTTA ATGTTTTCAT TAAGGGCACA CATTCTTGCT ATTGAGCCAA TGTTGTTGGT 120
 GATGGTGATC AAAGTCGCTC TGGCCAGGTC CTCTTTACTG ACAGCCTCTC GCTTCTCCTT 190
 GCTCATCATG TTTCCAAAGC TTGAAGCCAC ACTCGAG 217

(2) INFORMATION FOR SEQ ID NO:1392:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 438 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392:

CGGGAGGCTG AGGCAGGAGA ATCACTTGAA CCCGGGGGGT GGAGATTGCA GTGAGCCGAG 60
 ATCAAGACAT TGCATTCCAG CTTGGGCAAG AAGAGGGGAG TTCTGTCTCT AAGAAAAAAA 120
 AAAAAAAAAA AAAGCTACAC TTTGATCTTT GATTCAGTAG ATATCAGTAA GTATTTGCTG 180
 CATTTCATGA GAGCCAACCA TGAGTAAGAC AGAAGTACTT CCTGTCCTCC TGGGCTTTCC 240
 TGAGTAGCAG GAGAGATGGA CTAGGAAGAT GAGTGACTGC AGTAGCCTGT GCTGTTCTGC 300
 GGTGATGGGA GAGGCCACTG AGAGTCCGGA CAGGCAGGCT GATATTGTGA GAAGGCTTCT 360
 GGAAAGAAGG AACATTTAAG CTGAGAGTGA GAGTTGCGTA AGAATTTCCC AGGGAGGGGA 420
 AAGAGGGAAA CACTCGAG 438

(2) INFORMATION FOR SEQ ID NO:1393:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393:

GAATTCGGCC TTCATGGCCT AAAACTTCCT AGGAGAAGGC AAGAGAAAGC CACCAGACCA 60
 GAGCCGAGGA CTAAACTTTA AGGTGGAAGA CGGCAGAGGG GCAGGTTCTC CCCTGCACAC 120
 CCCAAGGCCT CTCCTGCACC CGCGAGGCCT TCCTTGAGCG CCCAGGCCCC CGAAATGCCT 180
 GCCCTCCTTC TGACAAAAGG AGGGGGTAGG ATGTGAAGGG GTAGTGCAAC CAACAATGTT 240
 TTTGTAAACA CAACAACAAG GAAATACTCG AG 272

(2) INFORMATION FOR SEQ ID NO:1394:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394:

GTGAAATTGT CAAATAAAAA TATGAAAAC T CAGCTGACAA GAGTAAATGT CCTTAAAGAC 60
 AAAACAATTG AAGAGCTCAG GCAATCTTTA GCAAAATGTTG AAAGGATGAA AGAGAAGGCA 120
 AATGTTGAAA CGATGAAAGA GAAGGCAGTT GTGAAAACAG AAAACTTGAA AACTACATTA 180
 GACTCTGCAG AGCAAAAGGC AAGATCAGAC AAAGAGAAGA CCCAGCAGAT GTTAGATGCT 240

GTCACCTTCTG AGCCCCAAC AGCAAAGAGC GCACCTGAAG AAGTATCAGG ACAAGAACAA 300
GAAGTACTCG A 311

(2) INFORMATION FOR SEQ ID NO:1395:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1395:

GAATTCGGCC TTCATGGCCT ACTGTGTGCT TAGTTTTAAA GACAACTTTG AAGTAAACAA 60
TGAAAATAAAA GATGTCACTA AAACCTCTGA GGCTCCTGAG CACATTTTGC TGATACAGTC 120
TGTGGGGCTT GAGGAGACCG CATGTATTGT TCTTTCTTTT GTTTTCTTC TGAGTTCTCA 180
ACTGCGGAGA GCACCTGAAC CCCCTTTCCT TTTTGACCGC AGGCTGCACT TTGGGCCCCA 240
GCCAGCCCTT TTTCTTTTTC TTTTCTTTT GTGGTTCTTC CCTGGAGCGA CTCTGGGGAG 300
TCCTGGATAT CCCGCCTGCC CTTCCCTC AGCCCATGC TTGTTCCAAC AGTCTCCACA 360
GCTCGAG 367

(2) INFORMATION FOR SEQ ID NO:1396:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1396:

GAATTCGGCC TTCATGGCCT ACTTGGAAC GAAAGAGGCG CCAACCTACA ACTAAGAAGG 60
GACAAACCTT GAACTAAGTA AGACCTTACA CACCCAGAAA GAACACTGGG CCCTCCTTCT 120
TCAGGGACAA TGCAGTAGCC ACTTGGCTTG TGAATTTAC TGAAGGCTAT TTCCTGTAAC 180
TTGCTAGTTA ACTTAGTTTT GTATTTCAGG CAGAGGTGCG CTCTGTAATG TTGGGCCTTT 240
GACTTCACAG TACTGGAGAG CTGTTACAC AGATGTTTAG ACCTTCTCT CTCTCTCTCT 300
TTTCTTCTTT CTCAACAAC CTTATCTCTC GAG 333

(2) INFORMATION FOR SEQ ID NO:1397:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1397:

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCGAGAT ACAGCAGCTG CTGCAGAAGC 60
TCAAGTCTGA GTTGGAGATG GCCCAGGAAG ACCTGTCCAT GACCCAGAAG GATAAATTTA 120
TGCTCCAGGC AAAAGTGTCT GAGCTGAAGA ACAACATGAA GACCCTGCTC CAGCAGAACC 180
AGCAGCTCAA GCTGGACCTA CGCCGCGGCG CGGCCAAGAC GAGAAAGGAG CCGAAAGGCG 240
AGGCCAGCTC TTCCAACCTT GCCACGCCCA TCAAGATCCC GGAATGCCCA GTTCCCGCCT 300

CGCTGCTGGA GGAGCTGCTG AGACCACCGC CCGCCGTGAG CAAGAGCCCC CTCGAG

356

(2) INFORMATION FOR SEQ ID NO:1398:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 447 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1398:

GAATTCGGCC	TTCATGGCCT	AATTCTATGA	GGTATTATTA	TCACTATTTT	ACAGATGAGT	60
AAACTAAGGC	TCACAGAGAT	TAACTGGCAG	AACTGAAATT	CTCCATATCT	TTTTGATTCC	120
AGATTATTTC	TCTTAATCAT	GATATGATT	TGTCTCATAT	AATCCAATAC	AATAAATAAG	180
GAGGTCAGGC	AGTAGGAGGT	GAAGTTGGAG	AGACTGGGAG	ACCTATCAGG	AGGGGTCATT	240
TATGCCTGGC	TAGGAGTTTG	GACTTTATGC	TGAGGCTATG	GGAGCACTAT	TAAAGTGATT	300
CTAGCACTGC	AAAGTTATGA	TTAGGTTTAT	CAGCCAAAGG	AAAAAAAAAG	ATCTTGGTGG	360
TCACAGTGCA	GGTAGATACG	ACATAATCGA	GAAATGTGAA	GAATGCAGAA	TCAAGAGTTT	420
GGTGCTGGAC	AGAGAGAGGA	ACTCGAG				447

(2) INFORMATION FOR SEQ ID NO:1399:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1399:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACTCTTT	TAAATTTTCT	GCATTTCCT	60
GAAAAGCACC	CCTGTAAGAA	TAGATTTCTC	ATGGCTCTAA	AAATTATTCC	CAAGAATACC	120
TTACTTGGTT	CAAAAGCAGA	CTGTTTCTCT	TCATTTTCATC	TCAAATCAGA	CTTCTGGGCA	180
AGATGTTCTT	TAGAGTAAGC	AAACCTACAA	CCTAAAAATC	TCTTCAAGAG	GCATCTCTGG	240
TCTTGTGACA	AGACCTCTTC	AAAAACCCAC	AGTAAACTC	CCCTCCCTCC	AGTTGGCCAC	300
CAGTCTGCCA	CCAAACATGA	ACAAATTCTG	CTGCTAATCG	GTTTCCCTTG	TGATCTGGTT	360
CCTGAGGTCT	TCGGATCTGT	GCAATGAATT	ATTTATTGTT	TTATTAAACC	GACAGTGGTG	420
TGCTCGAG						428

(2) INFORMATION FOR SEQ ID NO:1400:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400:

GAATTCGGCC	TTCATGGCCT	ACTAGACCTG	CCTCAGGGTG	TTCTGTGGTT	TCAGGTGGAA	60
GGTGGAGGGC	CTCGGAGACC	AACTGTGAGT	TAGCGGGGT	TTAGAACTCG	ATGGGAAGAG	120
GGCAGAGACA	ACAGGTTCTGA	AAGAGTCAGG	GCTCCTGGGA	CCTGGGAAGT	AAAGAGTAA	180

CCTGGGGCAG TGGGTCAGGC CAGTAGTTAC ACTCTTAGGT CACTGTAGTC TGTGTAACCT 240
TCACTGCATC CTTGCCCCAT TCAGCCCGGC CTCGAG 276

(2) INFORMATION FOR SEQ ID NO:1401:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1401:

GAATTCGGCC TTCATGGCCT AGCCACCGTG CCTGACCTAC TTATTCTTTT TCCTGTTTCTCAG 60
CATCTAGTGT ATGATACGAT TTGCTTATTT GTTATGTTT CATCATCTGT TCCCCACCCT 120
CAGCCCTGGC CCCCTTGCTG GAACGCAAGC TCCAGGCAAA GCTATTTTAC CGTTGCTGTT 180
TTCCAAGGGC CTCGAACAGT GCCCGGCACA TAGCAAATCC TCAGTGAACA TTAGAGGAAT 240
AAGTGATTCA AGAATAGAGC TGTTAGAAGG TGTCTGGAG GAAGACGCAT CCGGCTTCAT 300
CCCTGGCACC ATCGAG 316

(2) INFORMATION FOR SEQ ID NO:1402:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1402:

GAATTCGGCC TTCATGGCCT AAATTCTCCA GCAAATGAG GATGAAAACC AGGAAAGAAG 60
AAGAAATGGG ATCCATAAAA CAGTGACCT TACTTAGGAT GTCTCATTCT AGAGTGACAG 120
CCAAAAGGGT ATCTCACCTT AGAGTGACAG CTATCCAGCA GACTAATTTC AGATGAGAGC 180
ATACTGTCTC GGGCTTCTG GGAAGAATGT GCATTAGTG CCATAGATAG TATCACTGAA 240
GAGCTGGGAT GCTTGAGAAG ATTATTTAGT CAAGAAAAA GAAAGACAAA TCAACAATAT 300
GTCAAAAAT TCAGGTCCAA TTATAGAGCA AAAGGGCTCG AG 342

(2) INFORMATION FOR SEQ ID NO:1403:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1403:

GAATTCGGCC TTCATGGCCT AAGGCTAAAA AGAAGGAAAA AGAAAAGGAA AAAAAGGAGG 60
AGGAGAAAAT GGAAGTGGAT GAGGCAGAGA AAAAGGAGGA AAAAGAGAAG AAAAAAGAAC 120
CTGAGCCAAA CTTCAGTTA TTGGATAACC CAGCCCGAGT TATGCCTGCC CAGCTTAAGG 180
TCCTAACCAT GCCGGAGACC TGTAGATACC AGCCTTTCAA ACCACTCTCT ATTGGAGGCA 240
TCATCATTCT GAAGGATACC AGTGAAGACA TTGAGGAGCT GGTGGAACCT GTGGCAGCAC 300
ATGGCCCAAA AATCGAGGGG GAGGTAATC GAG 333

(2) INFORMATION FOR SEQ ID NO:1404:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1404:

```

GGGCCCTGGG CCCCAGCCCC CAGCCCATCC GTGGCCCAGG CACTGGGGGG CTGAGGTCCT      60
CTGAGAAGGG ACACAGGGCC GGGGGGCTCT CTCAGCCCAT CAGCAGGAGA GGA CTGACT      120
CAGAAAAATC AGCGTTTGTG CCCACTCAGG CTGCCAAGAC CTGTGTCCGT CCTTCCAAGC      180
TCAACCTTCA GAGTTCATGA GGCCCTTGC CCAGAATGTC CACAGAGTTC ATGAGGCCCC      240
TTGCCCGGAA TGTCCACATT TGAACCTCC CAACACCGAG CCCCATTTC AGTATAACCA      300
GGAGGGAAAA TGGTGCTTGA AATAAGCATG CCACAAAGGA AAACCTGCTT TCTCGAAATG      360
GGCCCTGGCC GCCCAGGCC TGACCTCCCC GGCCAGGATG GAACGTTCCA GAAACCTCG      420
AG

```

(2) INFORMATION FOR SEQ ID NO:1405:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1405:

```

GAATTCGGCC TTCATGGCCT ACTGGGGTCC AAACCTGGATA TCTTGGTGGA GAACATGGGG      60
AGGCTCAGCT TTGGGTCTAA CAGCAGTGAC TTCAAGGGCC TGTGAAGCC ACCAATTCTG      120
GGGCAACAA TCCTTACCCA GTGGATGATG TTCCCTCTGA AAATTGATAA CCTTGTGAAG      180
TGGTGGTTTC CCTCCAGTT GCCAAATGG CCATATCCTC AAGCTCCTTC TGGCCCCACA      240
TTCTACTCCA AAACATTTC AATTTTAGGC TCAGTTGGGG ACACATTTC ATATCTACCT      300
GATGGACACT CGAG

```

(2) INFORMATION FOR SEQ ID NO:1406:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1406:

```

GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCC TCGACTGCCC CAAACCTGAC      60
CCATCCTCAG ACCCCCACCC CCGTCACCGC TCCTCCCAAT GATTCCTCCC TCTGTCACTC      120
CTGCTCTACT TTCCAATCC TCGCCTGCTC CAAACCTGAC CCATCCTCAG ACCCCCACCC      180
CCGTCACCGC TCCTCCCAAT GATTCTTCCT TCTTTGATCC TGCCAACTTT TCCCCAACAG      240
CACCGTAATC CTCCCCCAA TCATCACAAT CCTCCACCAT ACAATCCCGC GTTCTCGAG      299

```

(2) INFORMATION FOR SEQ ID NO:1407:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407:

```

GAATTCTAGA CCTGCCTCTC GCTGGAATC AGCGTTGTAA GATGGACGCC CTGCTCAGCA      60
GAGCTCATCT TTCTAGAAAG GCACCTGGCC TTGGAAGGCG AGTGAGGAAC TGTATAAGG      120
ACTTTTCTT CCCATGTTGC TTTTCAGGAA AGCTTTCAGG ATGTGGAAAT GATGGTTCAG      180
CTATTGGATG AGGCTCGAG                                         199

```

(2) INFORMATION FOR SEQ ID NO:1408:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408:

```

GAATTCGGCC TTCATGGCCT AGTGATCCAG AAGAATTACC ATTAACCTTA TTTCAGAATT      60
TAGACTTCCA AATCAGGTTA ATCCTCCAAT TAAAAGAAAG ATTCAGAGTC AATTTTAA      120
AAGGCAAGGC AGTTATATGT TGCTTACAAG AAATAAACA TAAAGGCACA GATAAGTTGG      180
AAGTAAGAGG GAAAAAGACA TGCGAATACT AAGTATAGAG                                         220

```

(2) INFORMATION FOR SEQ ID NO:1409:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409:

```

GAATTCGGCC TTCATGGCCT AGATAAGCCC TTCAGAAACA CATGCACTGT TAATTCTGTT      60
TTAAATATAA TAAAAACCAT TTCACTTTGA CATTACCTAT TAAGTTTAC TGAAAGTCAA      120
AAGGCCTACT TACTGTGACT TCCAAAAAAG TATTTTGATA ATATTTTGAA AGAAATAAAT      180
AATTCCCTT TGCATGAAAT TAAAGCCAT GATAATAGGG AAAACATTAC TCGAG          235

```

(2) INFORMATION FOR SEQ ID NO:1410:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 577 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1410:

GAATTCGGCC	TTCATGGCCT	ACCCACGTAA	CGGCTTGGCT	GGGCACCCC	GCTTGGCTTG	60
GTGGTCCTGG	TTTGGATTGG	CTTTACCCTG	GCAATCCTTT	GCTGGGCTTG	ACCTTTTCTT	120
GCTGGGCTTG	GCATTCCCCT	GGCTGGGCTG	GGTGTTCCTC	CGGTGGGGCG	TGCACTTTCC	180
CTGGGTGGTG	GAGGGGGCGT	GGGCTCTCCC	CGGGTGGTGG	GGGGACGTGG	GATCTCCCCA	240
GTTGGTGGTG	GGGGAGGGGT	CGTGGGCTCT	CCCAGGGTGG	GGTTTGGCT	GGGATTGACC	300
TTTCTCCCCT	AACAGATTGG	AAACTCGTAA	TTTCCCGCTT	TTTGGTGAAA	CTCGTTGACA	360
GACACCATCT	GCTCGCTACT	ACCAGGCTGT	TGAAAGCAGA	TGGTGGCTGA	GGTTTCTCCA	420
AAGCTGGCTG	CCTCCCCTAT	GAAGAAGCCC	TTTGGCTTCA	GGGGCAAGAT	GGGCAAGTGG	480
TGCTGCTGCT	GCTTCCCCTG	CTGCAGGGGA	AGCGGCAAGA	ACAACATGGG	TGCTTGGAGA	540
GACCACGACG	ACAGCGCCTT	CACGGAGCCC	ACTCGAG			577

(2) INFORMATION FOR SEQ ID NO:1411:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1411:

GAATTCGGCC	TTCATGGCCT	AGGGATGCCT	CTCAGTGACC	CTTATATGTC	AGGTATGAGG	60
CGGATGGGGC	ATCTCTCTAG	TCCTTTTCTAG	GGTTTTTACT	CTTCTAGTCC	CTTCAAGGGC	120
TGAGTGCTCT	GACTTTATGT	CTTCCCACGT	AGGCGTTGAC	CCTGCACTAT	CAGATCCTGT	180
GTTGGCCCCG	CGCCTTCGGG	AAAACCGGAG	TTTGGCCATG	AGTCGCTGG	ATGAGGTCAT	240
CTCCAAATAT	GCAATGTTGC	AAGACAACCC	TCGAG			275

(2) INFORMATION FOR SEQ ID NO:1412:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 532 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1412:

GAATTCGGCC	TTCATGGCCT	AGTTTTATTT	TGCACTTGA	AATATGTCAG	AAATCACTTG	60
AAGGCAAATA	AGATCTGGCC	CTCTGCAGAG	TTAAGTGGCT	AACATGCCCT	AGATCTCCAG	120
GCTTAGAGGC	TGCCCTTTG	GTACCCATGA	TTCTCCAGGC	CTTCCAGGG	CAACATTGTC	180
CAGCATCTCT	CTCTCTCCTC	CCGCCGTCTT	CCTTTGGAAG	TTTGACTCTC	ATGTGTGGTG	240
CCCGATCCCT	AGGCCACCTG	TGCCGGCCAG	CCCTGAACA	GATAAATCCT	ACTAAAGGTT	300
AATCCCAAGC	ACAAGCTTTG	GGCTGGTCCT	TCTGGGTGA	TGGCTTTCT	CTCTCTCTCT	360
CCTTTTTTGA	GATGGAGTCT	CCTTCTGTCT	CCCAGGCTGG	AGTGCAGTGG	CACAATCTCG	420
ACAATCTTGG	CTCACTGCAA	CCTCTGCCTC	CCGGGTTCAA	GCAATTCTCC	TGCCTCAGCC	480
TCCTGAGTAG	CTGGGATTAC	AGGTGCCCGC	CCTGCTTCT	GGCATACTCG	AG	532

(2) INFORMATION FOR SEQ ID NO:1413:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413:

GAATTCGGCC TTCATGGCCT AGGCATCCAG GACAAAAGTT TGGAAAACAA AATAATGGAA	60
CTAAATAGTA CTAACCAAAG TATAGGGTGC TTTATGATTT ACAGAACTCT CTTACAGGCA	120
GTATGTTGTT CAGGCGCCAC TAGAACCCAC GTAATGGCAG AGGCTTCCTG TTCCATGTTT	180
AAAAACCTTT CCAAGGCTTT TCATTATTTT CTTATCTGTG GTACCCCTAG CTTCTGTGTC	240
TCTAGACACA CTGGCCTACC TTCAACTTCC TTGACCAAGT TAGCTTACAG TGTAAGCTTA	300
CCCCCGGCC CCACCTCGA G	321

(2) INFORMATION FOR SEQ ID NO:1414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414:

GAATTCGGCC TTCATGGCCT ACATGAACGG AAGAGTGGAT TATTTGGTCA CTGAGGAAGA	60
GATCAATCTT ACCAGAGGGC CCTCAGGGCT GGGCTTCAAC ATCGTCGGTG GGACAGATCA	120
GCAGTATGTC TCCAACGACA GTGGCATCTA CGTCAGCCGC ATCAAAGAAA ATGGGGGTGC	180
GGCCCTGGAT GGGCGGCTCC AGGAGGGTGA TAAGATCCTT TCGGTAAATG GCCAAGACCT	240
AAAGAACCTG CTGCACCAGG ATGCTGTAGA CCTCTTTCGT AATGCAGGCT ATGCTGTGTC	300
TCTGAGAGTG CAGCACAGGT TACAGGTGCA GAATGGACCT ATAGGACATC GAGGTGAAGG	360
GGACCCAAGT GGTATCCCA TATTTATGGT GCTGGTGCCA GTGTTTGCCC TCACCATGGT	420
AGCAGCCTGG GCTTTCATGA GACACGGCA ACTCGAG	457

(2) INFORMATION FOR SEQ ID NO:1415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1415:

GAATTCGGCC TTCATGGCCT AAAAATATCT AGTCACTGTT CTGTTTTACC CATTCTTTTA	60
AACTTTGTTT TTCAGTTTCA GTCAGGCTTC CAAGAAACT GATAACATTT TGATTGGTTG	120
GTTCCTCTTA TATCTTTTTC ATTTACAGT ACATTGTGAT TTAATGATTT ATCTCTTAAA	180
TCTTTTTCAG TTCATAGGTT CCTCCTGTCT CTTTCTTTT CTTTGCACTT CATTGTGTC	240
AGAACCTTTG TCCTGTGGTT TCGCACAGTC TGGAGGAATT GGGGAAAGTG GCTGTCTAAA	300
CTGGTTCCCT CTTTCCATT ACTGCTGCAA TCAAGATGTT AGGGGGCCTA CAAGCAATAG	360
AAGCATCCTC GAG	373

(2) INFORMATION FOR SEQ ID NO:1416:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1416:

```
GAATTGGCCT TCATGGCCTA GTCATTGCT TTTATATCAG ATATCTAATT AATCAAACCT    60
TCTGGTTAAG TGCCTCCAAT TATTAACAAT CCTGCTCAGA GTTAAGATTA GCATCCAAGG    120
ATTTTCCTCC ATATTTCTTT TCAGAGGCAA TGGAATTTAC TAGTTTTTTA GCTCTTCAAC    180
TTGGCTGAT  GGTTTTAGTG GTGGTTATGC TATCTTCAGT AGTTTGGGA TCGCTCGAG    239
```

(2) INFORMATION FOR SEQ ID NO:1417:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 308 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417:

```
GAATTCGGCC TTCATGGCCT AAGAAAGGTT AAGTTACTTG CCTGAGGTAA CTTAGCATTG    60
ATAGAATTAG GATTTGAACC TGGGTAGTAT GACTCTTAGG TCCCCATGAG CTGGCACACA    120
GGTTGCCAAT CCATCAGTTA ACCTTCCCAT CACTGGGTCA GAGAGCCAAG GAGCAGAAGG    180
GGGATAGAAC TTCCCCAGTA CCAAACCTAAG GGGCTGAGCT GGGATCGCAA CCACAGGTTC    240
TGTTCCAAAG CTGGGGCTCT TTCGACAAGG CCATGCCCGC CTTGTCTCTT ATGCATGCTC    300
CACTCGAG                                     308
```

(2) INFORMATION FOR SEQ ID NO:1418:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 174 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418:

```
GAATTCGGCC TTCATGGCCT AAACAAACAA AAAAAAATGT TTTATATGCA AAAGTTTTTT    60
GTATCATGCT TGTATAAATC CAGCTTTTTT TGTATCATGC TTGTATTTTT TTTTCTAGC    120
TGTTATTGCT TTTCTGATAA TAGTACTGAA TTTGGTGTTA TGGCTGGTCT CGAG          174
```

(2) INFORMATION FOR SEQ ID NO:1419:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 234 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419:

```

GAATTCGGCC TTCATGGCCT AATTTTATAT TATTGTAA CACTGGGCTG GAATTATTGT      60
TTTGGGAAAA GGCCCATGAG AGTTTTTGCT CTGTGGGTTT TTAAAGGTAA GAATAAATTT      120
CGTGTGTTGAG ATGTTTTTGA TGTGCCTGTA ACCAGAATAG AAGTGTCTTA GATTATAACT      180
TTCTCTCAGA TTGAGTAATT CTGTTGTAAT AAGTCAGCAT ATGTTGCCAT CGAG              234

```

(2) INFORMATION FOR SEQ ID NO:1420:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420:

```

GAAAATATTT TTACTTTTAT AATTGATAGT ATTTCTTAAC TCTCAATTAA AAAAAGTTTT      60
TAAGCATTTC TGTGATATAG ATACTATCAT TTCATATTAC ACAATGCTTC TGATGATTTT      120
GCTGTTGTTG TTAGGGACTA-CTCGAGGCAG GTCTAGA                                157

```

(2) INFORMATION FOR SEQ ID NO:1421:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 495 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1421:

```

GAATTCGGCC TTCATGGCCT ACCAGGATGA GAGGGGAAAA AGAAGCCTC CAGTGACTTC      60
AGTTGCTTTG CCAGTTGTCT TGGGATTGTT TTACACCATC CTTTACTTCC CTTGCTCAGA      120
CCTCTCTGTT TCACCATTCG TCAGGCATTC AGGAAAGTAT CTGCTCACTC CCACTTGGTG      180
AGTCCTCGGC CTTGAGGTTG CTGACTCTCA GGCCTTAGGC AGCTGGATGA CTTCCCGCTT      240
CATGCAGCAA AGGCCAGGGG CTGCGCGGCC TCTGCAGAGT TGTGCTAGG GAGACTTGTG      300
TCATCATCCA CAACCTTGTT TCTCACTTCC TGGTTGGGCT CATCTCTGAA GAACAGGTCT      360
CCCAGCTTCG CTCCTTATCA CTGCATTGTG AAGAGGAGGA AAAGTGAATC ACGGAGAGAG      420
AAAGGAAAGG ATAGAATCAC AGGCTGCATC TGCACCTGAA AAGTGACCCG CGGAAACTCT      480
ATGGCGGATC TCGAG                                495

```

(2) INFORMATION FOR SEQ ID NO:1422:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422:

```

GAATTCGGCC TTCATGGCCT AGACAAAAGT AGAATTAGTA AACTACTACA TTGAGTACAC      60
TTTGTGTTAA AATTCATAGG GAAGACTTCT TAAAAACAAG TGAAATTGTT AAACCCCCC      120
CTAAGCATTA CAGATGGCTT ATAGCTGTCC ACGGGGTTGG TAGAGGTGGG AAAGGGAAGG      180
GTTCTAGGCC AGAATGTTCC TATTAGAAG ACACCTCAAAT TACAGTCTGT GTTATGTATG      240

```

TATACCATTT ATTCAATGCT ACTGTGTATA TAATGGAAAA CTTAAGTCCA GTTTGAAACA	300
TCTAGTCTTT CTAGGTGTTT AAAAGTGTAC AACAGCCTGT CGCAGTGGCG CATGCCTGTG	360
GTCCCAGCAC TTTGGGAGGC CGAGGCAGGC GGATCACGAG GTCGGGAGAT CGGGACCATC	420
TTGCCAGCA TGGTGAACCC CCTCTCGAG	449

(2) INFORMATION FOR SEQ ID NO:1423:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423:

GGGAGTTTAT TATTCATTAA CGAAATTAGC CCTTTTATCT GCCATATAAT TTGCAACAAT	60
TTTATATCAG CTTTTTATT GTCTTTGGC TGTGTTATG AAAGTTATGG CCATGCAGAA	120
ATGTGGGATT TTATGTAGCA CAGTTGTCTC TTTTTTTTTT TTTTGAGACG GAGCCTAGCT	180
CTGTCACCCA GGCTGGAGNG CAGTGGCATG ATCTCGGCTC ACNGCAACCT GTGCCTCCCA	240
GGTTCAAGCA ATTCTTCAGT CTCAGCCTCC CAAGTAGCTG GGACTACAGG CGCCACCCCC	300
CTCGAG	306

(2) INFORMATION FOR SEQ ID NO:1424:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:

GAATTCGGCC TTCATGGCCT AGAACTTGT ACACCATGGA ATGTTCTACT TATTATTTTG	60
TGCTACAATA TGTGCTGTTT CTTTGTGTTG AATTGCAGAT TGTCTACTAT GAAGCAGGGA	120
TTATTCTATG CTGTGTCCTG GGGCTGCTGT TTATTATTCT GATGCCTCTG GTGGGGTATT	180
TCTTTTGTAT GTGTCGTTGC TGTAAACAAT GTGGTGGAGA AATGCACCAG CGACAGAAGG	240
AAAATGGGCC CTTCTGAGG AAATGCTTGT CAATCTCCCT GTTGGTGATT TGTATAATAA	300
TAAGCATTGG CATCTTCTAT GGTTTTGTGG CAAATCACCA GGTAAGAACC CGGATCCTCG	360
AG	362

(2) INFORMATION FOR SEQ ID NO:1425:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425:

GAATTCGGCC TTCATGGCCT AGTATATCTG AAAAGTACAC TGTGTTTGA AATTATAAAT	60
TTTCATTCTG AATGAGGTTT CTTTTTTTGA TTTTCTTTAA AAAAAAAAAA CAACCTGCTT	120
TGATTTGCTT TACATTCCCT GCCCTCCATT TTTCTTATTA TATTGTAAAC ATTAGAAAAA	180

TGAACACCCT CGAG

194

(2) INFORMATION FOR SEQ ID NO:1426:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 393 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426:

GAATTCGGCC	TTTCATGGCCT	AGCCATGTAT	TTTCTAATAT	CCCTTGGACT	TCATCTTTGA	60
CTCATGTTTT	ATTTGAAGT	ATTGGGATG	TTTTTCAGTT	ATCTTTCTGT	TATTATTTCT	120
ATTTAATTCT	GTTATGTC	TACAACATAA	TTTAAATTCT	TCTAAATTG	TTGAGGATTG	180
TTTTTGTTC	CCAGAATATG	ATGAATCTCT	CATTGAATGT	TGTATGTGCA	GTTGAAAAGA	240
ATGTTTATTC	TGCTGTTGGT	GGGTAAAGTG	TCATGAATAT	AATTAGGAGA	AATTAATGAT	300
AGTGTTAAGG	TTTTCTATAT	CCTTGCTTTT	TTGGTGTA	TACT	TATTTTATTG	360
GAGAAGGGTT	GAATTATCTA	GGTGCAACTC	GAG			393

(2) INFORMATION FOR SEQ ID NO:1427:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427:

GCGATTGAAT	TCTAGACCTG	CCTCGAGCCA	CCCCGTTAAT	GTGTGTGTTG	ACAGTGAAGT	60
CCTTGGGTGG	GGCCATGTGT	GTGTTGTGA	TGTTCTTAA	GTTGATGCAG	CTTCTCGAG	119

(2) INFORMATION FOR SEQ ID NO:1428:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428:

GAAAAAGCAG	TAAAAATAGA	AATCCATCTT	CACCAAGCCT	TTAAAGCAAT	ATAAATTAT	60
ACTGAGGTTT	CTGCATACTA	TAACACACAG	AAGGAATTCC	TAAAAATGTT	CTTTATCCAG	120
CTGTCTACCC	AAAGTTCTAT	CATCCTGGCA	AACGTCTCTC	TCCAAAATTC	ATCATCTTGG	180
ACTCTCTCTG	AAACTCCAAC	CCTTCTCTCT	TATACCTGT	TCTCCAACAT	TGGAATTTGT	240
TTAGTTTGTC	TTCTTCCTAA	TATAGCTATT	TCTGTTTACC	ATTTTGAGCT	CTGGAACCTC	300
AACCACTACT	TACCACCAA	ACTCGAG				327

(2) INFORMATION FOR SEQ ID NO:1429:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429:

```
GAATTCGGCC TTCATGGCCT AATCACATAT ACACAATTTA CCCATTTCAA GTGTACACGT      60
AGTGGTTTTTA GTATATTTAC AGATAGGTGC AACTATCACC ACAGTCAAAT TTAGAACCTT      120
TTCATCAACC CCAAAGAAA CACCATACCC TTTAGGTATC GCCTCCCTA TACTCCACCT      180
TCCAACTGCT GAGCCCTAAG TTACCACTAA CCTTCCTATC TCTATAGATT TCCTTATTCT      240
GAAC TTTTGA ATGGAATTAC AGTATCTGGT CTTTGTGCC TGT TTTT TTTT TGTACTAATGT      300
TTCAAGGTTT ATCCAGGCC TCGAG                                         325
```

(2) INFORMATION FOR SEQ ID NO:1430:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430:

```
GAATTCGGCC TTCATGGCCT ACCTAAACCT GGCAGAGTAC ATCATGCCTC CGAGAAGAAA      60
CGTCATTCCA CTCCTTTGCC GAGCACTGCT GTACCAAGCC ATACACCTGG CAGCAGCCAG      120
CAGTCCCGC TCAACAGTCC TCACCCGGGG CCCATCCGGA CAGGCCTGCC TCCTGGGCAG      180
CAGCAGGAAT TTGCCGACG AGCCAACAGC ACCTCCAACC CTCGAG                                         226
```

(2) INFORMATION FOR SEQ ID NO:1431:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431:

```
GAATTCGGTT CATGGCCTAG GATTAACAAC TTGGAAAAGG CCTATGATAC TCCTGGTAAA      60
CCTCTTTGTG CTGCTCTCTG TGGTTGTGT CCTCTTAAAT CTAGCTGGAT TTATCCTAGG      120
CTGCCAAGGG GCCCAGTTTG TGTCAGCGT GCCCAGGTGT GATCTGGTGG ACTTAGGTGA      180
AGGCAAGATT TGCTTCTGTT GTGAAGAATT TCAACCAGCC AAGTGCACAG ACAAAGAAAA      240
TGCCTTGAAA CTCGAG                                         256
```

(2) INFORMATION FOR SEQ ID NO:1432:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432:

```
GAATTCGGCC TTCATGGCCT AGGTTGCGGT GAGTCGAGGT CTGCACTCCA GTCTAGGTGA      60
CAGAGCCAGA CCTGGTCTTT AAAAAAAAAA AAAAAAAAAA AGTGAATTCA AAAGATTAGC      120
TAAGACAAAT TGGGAAAAAA AACCAAAAGG GGAGTTGACC TAACAGATAT TAAGATGTAT      180
TTCTAAAGCC ATAGCAGCTA AAATAGTACA GTATTAATGT AGGGACAAAC AGAACTCGAG      240
```

(2) INFORMATION FOR SEQ ID NO:1433:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433:

```
TCATTCTGAA CAAAAGGGAT TAGAGAAGAA AAATCTCTTG ATATAAGGCT TGAAAGCAAG      60
GGCAGGCAAT CTTGTTGTG AATATTTTCT GATTTTCCA GAAATCAAGC AGAAGATTGA      120
GCTGCTGATG TCAGTAACT CTGAGAAGTC GTCCTCTTCA GAAAGGCCGG AGCCTCAACA      180
GAAAGCTCCT TTAGTTCCTC CTCCTCCACC GCCACCACCA CTCCTCGAG      229
```

(2) INFORMATION FOR SEQ ID NO:1434:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434:

```
GAAATTGAAA CTCAAATCAG TTAGCTTCAA ACAAACGA AAGTTAGACC AAGGGAACGT      60
ATTAGATATG GAAGTAAAGA AAAAGAAACA TGATAACAA GAACAGAAAG GAAGTGTGGG      120
AGCTACATTC AAATTAGGTG ACTCTTGTG AAACCCAAAC GAAAGAGCCA TTGTTAAAGA      180
AAAGATGGTA TCAAATACTA AGTCTGTAGA CACGAAAGCG AGTTCATCTA AATTTAGTAG      240
AATTCTAACT CCTAAGGAGC ATCTCGAG      268
```

(2) INFORMATION FOR SEQ ID NO:1435:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435:

```
GAATTCGGCC TTCATGGCCT ACAAGACTGT CTCAAAAGA AAAGAAACAC AAATATTGA      60
ACTCCAAATA TTCTTTGTGT GTAGAAAAT CTAATGGATA ATTAAACTA GAGCAGAGAG      120
```

AAAAGCCTAG GAGTTGAGAG ATTTTATAGAT ACGTGACTGA AAAGATTGGA AAAGGCTATC 180
 AGTTTAAATG CTTGTGTCTG TCTTTGTGTG GGCCATGGTA TTTTGAAGA GCACCATGGA 240
 GCTCGAG 247

(2) INFORMATION FOR SEQ ID NO:1436:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 258 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436:

GAATTCGGCC TTCATGCCCT ACCTATTGTG GCATCAAGTG GTTATCTAAA TAGTTTGAAA 60
 GGATTGATAT ACTACATTAT ACGTCAAAAA TAAATAAATA AAATTAAGAA GACAGGGATT 120
 CCAAGATTGT AGCTGACCAA GCTGTCTTGT TTGCGTACA TCAACACTAT GCTGCTTCCA 180
 ATATTCCTAG-CCATTCCACA GGTAATGATT TTTCAACAAT CAAGAGAAAG TCATTCTTGT 240
 ACTGTAACAT CTCTCGAG 258

(2) INFORMATION FOR SEQ ID NO:1437:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437:

GAATTCGGCC TTCATGGCCT AAATCACTTG GATTGGTTCT CTACTTAAAA CACAAGCTAG 60
 CTACCCAGTC TTGTATTTTG TATTTTAAAG AATTGTATAA AAATAATTT TGTTTGTAT 120
 TTGTGTAAG CATAGTCATA ATTCTAAATC AAACACACTG CATCGAGTTT ATCACTGAAA 180
 TTCAGCATCT GCTTTGTCC TCACCTTGTG ATCTTCTGCT CTCATCGATT ACAGGCGTGA 240
 GCCACGCGC CCGGGGGTAT GTTCCTTACC CTTAAGGACA AGAAATACCG TTTGAAAACA 300
 TTCTTCTTGA ACATTAACAA ACTTAGAATG GTACATTCAT TTAAGAATTA AAATAGGCAC 360
 AAGAGGATTG AATTTGGAA ATATGTTGCT TAGAAATTG GGGGCAATTC TCGAG 415

(2) INFORMATION FOR SEQ ID NO:1438:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438:

GCGATTGAAT TCTAGACCTG CCTCGAAGTG CCAGCAGCAG AGGAGATGAC AGTGACATAT 60
 ACAACAGAGG CTGGGGTGGG CACTCCAGGA GCCCTGGAGC GGAAGACCTC AGGGCTAGGA 120
 CAGGAGCAAG AGGAAGGGTC AGAGGGCCAG GAGGCAGCCA CTGGGAGTGG CGATGGGAGG 180
 CAGGAGACAG GAGCAGCTGA AAAATTCCGA TTAGGATTAT CACGGGAGGC ACAGAGGGAA 240
 TTGAGTCCGG AGAGTCTACA GCTCGAG 267

(2) INFORMATION FOR SEQ ID NO:1439:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439:

```

GCGATTGAAT TCTAGACCTG CCTCGAGTCA TATCCCTGAG CAGTAGAGTA AATTAAATCC      60
TTTCTGAGAG TCTTAGATGT TTTTCTATGT CTCTTCTTTC TTATTCTCTC TCTGTTTCTT      120
TCTCTCACTC ACACACACAC ACACACACAC ACACACACCC CTAAAATTTG TTCTGAATGG      180
CCCACTAGGG CTGAATCATT TAGTGACTTC ATTGATTACT ATCCTGAGTT CTTCTTCCTG      240
CTTCCAGACT AGTGAAAATA TTCCAGAAAG CTTTAATATT GGAGAAAAGG CAAGCCTCGA      300
G                                          301

```

(2) INFORMATION FOR SEQ ID NO:1440:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440:

```

GAATTCGGCT TCATGGCCTA GCATTGGGAA GTAATTTTTT AAAACAACAT TCATATTAAT      60
TTAAGGAGCA TAACAGATTC CAGTGAATGT TATGATTCGC TATTGTAACA TTATTCTAGT      120
AAATATGTTG GAGAAGAACA GTTCTAGTGA ATTAACATATG GTTTTGAAG GCAGCTATGC      180
TCACCATCAT ACCACCAACA CAACCATGGT TTTATTTTAT ATTATTTATT TTATTTTGTG      240
GACAGAGTCT C                               251

```

(2) INFORMATION FOR SEQ ID NO:1441:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441:

```

GGAATTGGAA AGCGTTTCCT TGCCAACACC AGAAATCCAG TCAGATTTCT TACATAGCAA      60
AGTCGAAGCT CCTCCTTCAG AGGTGGCGGA TACGTTAGTA ATAATGACTG CTTCCAAGGG      120
TGTTCTGACTC CCAGAACCCA AAGATAAGAT TTTGGAGACA CCTCAGAAAA TGACAGAAAA      180
ATCTGAATCA AAGACACCAG GAGAAGGGAA AAAGGAAGAT AAAAGCAGAA TGGCAGAACC      240
AATGAAAGGC TACATGAGAC CCACCAAGCT CGAG                               274

```

(2) INFORMATION FOR SEQ ID NO:1442:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442:

GAATTCGGCC TTCATGGCCT ACCTTCTCTCC ATGTTTAACT GGGCTGCTCC CCATTCTCTG	60
CCTCCCTGTC TCCTCAGCCG CCAGAGCCCA GCCCCTCCGA CCAGGCCTCA CCCACCCCCA	120
CCCGACCCTT CCCTGAGGGT CTTTCTCTCA GTACCACTGA CACTTGGAGG CAGGAAACCC	180
AAACCTCCTT AACTAAGGCC TCATTACCT CGAAAGCAGT GGTGCTTCCC TCTGTCATC	240
CAGGGCCATA AAGCCACTGT CCCCTTAACT CGAG	274

(2) INFORMATION FOR SEQ ID NO:1443:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443:

GAATTCGGCC TTCATGGCCT AATTGCGCCA TTGCACTCTA GCCTGGGCGA CGGAGCAAAA	60
CTCCATCTCA AAAAAAAAAA AAAAAAAAAANN NANTCNGAAA CAGAAAAAAAAA AAAAAAGAATA	120
CACTGCATTG CCATTATCTA GTCACCCTGT GTAATATAGC AGCAGAACTC ATGCTTCTCTG	180
TCTTAAGTGT AACTTTGTAT CTGCTGACCA ACCTCTCTCC ATCCCTCTCT CCCACCTACC	240
CTCCCCAGTC CCTCGAG	257

(2) INFORMATION FOR SEQ ID NO:1444:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 258 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444:

GAATTCGGCC TTCATGGCCT AGGAAGCATT AAATTGGGCC ATAGGAAGGA CAAGTCACAT	60
CCAGTTTAGT GATCAATGGT GGTTTGGGAA AGAAATAACA GAATTCTACT CCTACATGAT	120
AGGGAGAGAC TACAGAGGCC ACCTAGACCA ACAAACCTCTG CCATCAGGTC CTTGAATCAT	180
TGCTACCATG TCCTGGTGGT GGTGTAGCA TTGCTAGTGA TATGTAAGTC ATTACCTACT	240
TATGCAAACC ATCTCGAG	258

(2) INFORMATION FOR SEQ ID NO:1445:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 638 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445:

GGATGGCTAC	GGCAGGGGGT	GGCTCTGGGG	CTGACCCGGG	AAGTCGGGGT	CTCCTTCGCC	60
TTCTGTCTTT	CTGCGTCCTA	CTAGCAGGTT	TGTGCAGGGG	AAACTCAGTG	GAGAGGAAGA	120
TATATATCCC	CTTAAATAAA	ACAGCTCCCT	GTGTTGCGCT	GCTCAACGCC	ACTCATCAGA	180
TTGGCTGCCA	GTCTTCAATT	AGTGAGACA	CAGGGGTAT	CCACGTAGTA	GAGAAAGAGG	240
AGGACCTACA	GTGGGTATTG	ACTGATGGCC	CCAACCCCC	TTACATGGTT	CTGCTGGAGA	300
GCAAGCATT	TACCAGGGAT	TTAATGGAGA	AGCTGAAAGG	GAGAACCAGC	CGAATTGCTG	360
GTCTTGCACT	GTCCTTGACC	AAGCCAGTC	CTGCCTCAGG	CTTCTCTCCT	AGTGTACAGT	420
GCCCAAATGA	TGGGTTTGGT	GTTTACTCCA	ATTCCNATGG	GCCAGAGTTT	GCTCACTGCA	480
GAGAAATACA	GTGGAATTCG	CTGGCAATG	GTTTGGCTTA	TGAAGACTTT	AGTTTCCCCA	540
TCTTTCTTCT	TGAAGATGAA	AATGAAACCA	AAATCATCAA	GCAGTGCTAT	CAAGATCACA	600
ACCTGAGTCA	GAATNGGTCA	GCACCAACCC	GACTCGAG			638

(2) INFORMATION FOR SEQ ID NO:1446:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 269 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446:

CGGAGCTCGT	GTTTTAAAGG	ACCAAATAGA	AGTTTACCAG	GAGAGAAGTG	ACAGAAGTGC	60
TGTCTAGATA	GAGGAAGGGC	ACACACAGAT	GCAAGCATGT	GCAGAAATGA	GCAAACCACT	120
GAGACGCTGC	CTTGAGCTCT	GTGTCACACT	GCTATGTTGC	AGCCTGGGAG	GCTGTTCCCA	180
GTTGAGCCCT	TCGGAACCAG	CCATGAGATG	GCACGGGTAC	GCGGAAGGGA	GCAGTCTCCA	240
TGGCTGGGTG	GTGATGGGGG	CTTCTCGAG				269

(2) INFORMATION FOR SEQ ID NO:1447:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 355 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447:

GGTCTCTCGC	CGCCGGAGGA	AGATGAGGCT	GAAGATTGGA	TTCATCTTAC	GCAGTTTGCT	60
GGTGGTGGGA	AGCTTCCTGG	GGCTAGTGGT	CCTCTGGTCT	TCCCTGACCC	CGCGGCCGGA	120
CGACCCAAGC	CCGCTGAGCA	GGATGAGGGA	AGACAGAGAT	GTCAATGACC	CCATGCCCAA	180
CCGAGGCGGC	AATGGACTAG	CTCCTGGGGA	GGACAGATTC	AAACCTGTGG	TACCATGGCC	240
TCATGTTGAA	GGAGTAGAAG	TGGACTTAGA	GTCTATTAGA	AGAATAAACA	AGGCCAAAAA	300
TGAACAAGAG	CACCATGCTG	GAGGAGATTC	CCAGAAAGAT	ATCATACTTC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1448:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 366 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448:

GAATTCGGCC	TTCATGGCCT	ATCCTCTGCC	AAGACCAAAA	GGAAAGAAGA	AAAAGGGCCA	60
AAAGCCAAAA	TGAAACTGAT	GGTACTTGTT	TTCACCATTG	GGCTAACTTT	GCTGCTAGGA	120
GTTCAGCCA	TGCCTGCAAA	TCGCCTCTCT	TGCTACAGAA	AGATACTAAA	AGATCACAAAC	180
TGTACAACC	TTCCGGAAGG	AGTAGCTGAC	CTGACACAGA	TTGATGTCAA	TGTCCAGGAT	240
CATTCTGGG	ATGGGAAGGG	ATGTGAGATG	ATCTGTTACT	GCAACTTCAG	CGAATTGCTC	300
TGCTGCCCAA	AAGACGTTTT	CTTTGGACCA	AAGATCTCTT	TCGTGATTCC	TTGCAACAAT	360
CTCGAG						366

(2) INFORMATION FOR SEQ ID NO:1449:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449:

GATTCTTAC	CCAAAGCTCT	GGAATTGTAC	ATTTATTTTT	TAAAACTCAA	AGAGGGAAAAG	60
AGCCTTGAT	CATATGTGAA	CATTGTATCA	TAGGTAATGT	TGTACAGACC	CTTTTATACA	120
GTGATCTGC	TTGTTCTGTC	AGCAAAAATC	CTCTATGGAC	ATAGGAGGTG	CTGTGTCCCA	180
TGCCCTCTG	CCCTGACAGT	GTCCCATGGG	CCCCCTTCTG	CTCCCTGCCC	CCTCCCTGCT	240
ACTGCTGATG	CACTCCCCCC	CCTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1450:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450:

GCGATTGAAT	TCTAGACCTG	CCTCGAGACC	TGGGGGGAGA	TGGGGCTCCC	TTTCCTCATG	60
ACATCCTGCC	CTATCAGGAC	TCTGGAGATA	GTGGGAGCGA	CTACCTTTTC	CCAGAAGCTA	120
GTGAAGAATC	AGCAGGCATC	CCGGGAAAGT	CAGAACTTCC	CTACGAAGAG	CTGTGGCTGG	180
AGGAAGGCAA	GCCCAGCCAT	CAGCCTCTCA	CTCGCTCTCT	GAGCGAGAAG	AACAGATGTG	240
ATCAGTTTAG	AGGTTCTGTC	CGATCCAAAT	GTGCGACTTC	TCCTCTTCCC	ATCCCTGGGA	300
CTCTGGGAGC	AGCAGTGAAG	TCTTCAGATA	CTGCCCTACC	TCCACCTCCA	GTGCCTCCCA	360
AATCTGAAGC	CGTCAGAGAA	GAATGCCGGC	TCCTGAACGC	CCCACCTGTT	CCACCCCGAA	420
GCGCACTCGA	G					431

(2) INFORMATION FOR SEQ ID NO:1451:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:

GCCTGCCCCC	ACCTTACAGG	TCTGGGATGT	ACCTTTCCAT	CTGTTGCTGC	TTTCTTCTAT	60
GGGCCCCTGC	CCTCACTCTC	AAGAACCTCA	ACTACTCCGT	GCCGGAGGAG	CAAGGGGCCG	120
GCACGGTGAT	CGGGAACATC	GGCAGGGATG	CTCGACTGCA	GCCTGGGCTT	CCGCCTGCAG	180
AGCGCGGGCG	CGGAGGGCGC	AGCAAGTCGG	GTAAGTACCG	GGTGCTGGAG	AACTCCGCAC	240
CGCACCTGCT	GGACGTGGAC	GCAGACAGCG	GGCTCCTCTA	CACCAAGCAG	CGCATCGACC	300
GGAGATCCCT	GTGCCGCCAC	AATNCCAAGT	GCCAGCTGTC	CCTCGAG		347

(2) INFORMATION FOR SEQ ID NO:1452:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:

GGGGCAGAAG	TTGAATATAC	CGGCAATTTT	GCGAGCACCC	AAGGAGAGAA	AACCAAGTAA	60
AAAAGAAGGA	GGCACACAAA	AGACATCTAC	TCTTCCTGCA	GTACTTTATA	GTGTGGGGAT	120
TTGTAAGAAG	AACCATGATC	AGCATCTTCT	TTTATTGTGT	GATACCTGTA	AACTACATTA	180
CCATCTTGGA	TGTCTGGATC	CTCCTCTTAC	AAGGATGCCA	AGAAAGACCA	AAAACAGTTA	240
TTGGCAGTGC	TCGGAATGTG	ACCAGGCAGG	GAGCAGTGAC	ATGGAAGCAG	ATATGGCCAT	300
GGAAACCCTA	CCAGATGGAA	CCAAACAAC	TCGAG			335

(2) INFORMATION FOR SEQ ID NO:1453:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 627 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:

GCGATTGAAT	TCTAGACCTG	CCTCGAGATC	CCCATGACTC	CTACATCCTC	TTTTGTGTCT	60
CCGCCACCAC	CCACTGCCTC	ACCTCATTCC	AACCGGACCA	CACCGCCTGA	AGCGGCCCCAG	120
AATGGCCAGT	CCCCCATGGC	AGCCCTGATC	TTAGTAGCAG	ACAATGCAGG	GGGCAGTCAT	180
GCCTCAAAAG	ATGCCAACCA	GGTTCACTCC	ACTACCAGGA	GGAATAGCAA	CAGTCCGCCC	240
TCTCCGTCCT	CTATGAACCA	AAGAAGGCTG	GGCCCCAGAG	AGGTGGGGGG	CCAGGGAGCA	300
GGCAACACAG	GAGGACTGGA	GCCAGTGCAC	CCTGCCAGCC	TCCCGGACTC	CTCTCTGGCA	360
ACCAGTGCCC	CGCTGTGCTG	CACCCTCTGC	CACGAGCGGC	TGGAGGACAC	CCATTTTGTG	420
CAGTGCCCGT	CCGTCCCTTC	GCACAAGTTC	TGCTTCCCTT	GCTCCAGACA	AAGCATCAAA	480
CAGCAGGGAG	CTAGTGGAGA	GGTCTATTGT	CCCAGTGGGG	AAAAATGCCC	TCTTGTTGGC	540
TCCAATGTCC	CCTGGGCCTT	TATGCAAGGG	GAAATTGCAA	CCATCCTTGC	TGGAGATGTG	600
AAAGTGGAAG	AAGGAGAGCG	ACTCGAG				627

(2) INFORMATION FOR SEQ ID NO:1454:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454:

```
GAAC TTGAC ACCTACACTT AAATTCTGAG TCATTAAACA GGCCTACATT TATCAACTGT      60
GGAAATATCA GCCAGTTTTT GCAAACCTCT TCTTAGGACA CTAAGTTGTT TGCAGAAATC      120
ACTAGCATTG ACTGACTCAG CAACAATGTG GTTATATTCT TTGATTAAC TATGCTCTTT      180
TCTTGGTCAA GAGTCAGTAG ACAGGACTGA AGCTTATGCC CCTTGCCCCC CCACCACCAC      240
TCCATTACTA CCACCTTGGT TTAGCCATCC TTTCTTGATC TGTTCCTCCC ACTTCTACTG      300
TGCTACTCTA CAGACTTGCC CTGAATGTAA GAGCAACAAT TACCTTGTA AGTCCAAGTT      360
GGGCAGGTC ACTCCCAAAC TCCACAACCT CGAG                                     394
```

(2) INFORMATION FOR SEQ ID NO:1455:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 381 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1455:

```
CAGATGTTCA GATATATCTT GAATTTTCTA CGAACATCCA AACTCCTCAT TCCTGATGAT      60
TTCAAGGACT AACTTTGTT ATATGAAGAG GCAAAATATT TTCAGCTTCA GCCCATGTTG      120
TTGGAGATGG AAAGATGGAA GCAGGACAGA GAAACTGGTC GATTTTCAAG GCCCTGTGAG      180
TGCCTCGTCG TGCCTGTGGC CCCAGACCTC GGAGAAAGGA TCACGCTAAG CGGTGACAAA      240
TCCTTGATAG AAGAAGTATT TCCAGAGATC GGCGACGTGA TGTGTAAC TCGTCAATGCA      300
GGCTGGAATC ACGACTCGAC GCACGTCATC AGGTTTCCAC TAAATGGCTA CTGTCACCTC      360
AACTCAGTCC AGGTCCTCGA G                                     381
```

(2) INFORMATION FOR SEQ ID NO:1456:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 309 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456:

```
GGTGACGCCT GCTTCACATC TCTAATGAAC ACCCTCATGA CGTCGCTACC AGCACTAGTG      60
CAGCAACAGG GAAGGCTGCT TCTGGCTGCT AATGTGGCCA CCCTGGGGCT CCTCATGGCC      120
CGGCTCCTTA GCACCTCTCC AGCTCTTCAG GGAACACCAG CATCCCGAGG GTTCTTCGCA      180
GCTGCCATCC TCTTCTATC ACAGTCCCAC GTGGCGCGGG CCACCCCGGG CTCAGACCAG      240
GCAGTGCTAG CCCTGTCCCC TGAGTATGAG GGCATCTGGG CCGACCTGCA GGAGCTCTGG      300
TTCCTCGAG                                     309
```

(2) INFORMATION FOR SEQ ID NO:1457:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 374 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:

GCACTATTAA ACAGATACAA CACAGAATAG TATGTATAGA GCATGGTATG TAGCAGGGGC	60
CTATTCCTGT CTGAGTGGAC AAGGAGGCTT CCTAGAGGAA GCAACATTTA AAGCTGAGGG	120
CTGAAGGATG AATAGGATT T AACCAAGTAA AAGTAAGAAA GGAAGTGGG AGCTGGAAAG	180
GGCATTCCAG GAAGAAGAAA CTGCATGTGC AAAGGCCAGG AGGTCAGAGC GCACAGTGGA	240
TATGACGATG TGGCTAGCTG AGCATGTCTG TGCAGTGTCA ACTTTGTGT GAACACAGAG	300
GGAGGCTACT GGGAAATTTT AAGCAAGAGA GTTGGAGTAT GATCACATTT GCATGTTAGA	360
AAGACACACT CGAG	374

(2) INFORMATION FOR SEQ ID NO:1458:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458:

GAATTCGGCC TTCATGGCCT ACATATTTAT TATGTCAACC TGTACTTCCC TTTCCCTCTT	60
CCTCTCCCTC TTTTCTCTCC CTCTCCCTCT CTCTCTCTC CTTCCTCCC TTCCAGGTAC	120
CCTAGATGAA CCATGGGAGG TCCTGGCTAC ACAGCCATTC TGTCTGAGAG AGTCTGAGGA	180
CTCTGAGACC CAGCCTTTTG ACACGCACCT TGAGGCCTAT GGACCTTGCC TGTCTCCACC	240
TAGGGCAATA CCAGGAGACC AACATCCAGA GAGCCCAGTT CACACAGAGC CAATGGGGAT	300
TCCGGGCAGG CTCGAG	316

(2) INFORMATION FOR SEQ ID NO:1459:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 417 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459:

GGAACCACCA ATTCCGGACA CACTGGGATT ACAGTTCAG GAAGGATGTT ACCTTTGACG	60
ATGACAGTGT TAATCCTGCT GCTGCTCCCC ACGGGTCAGG CTGCCCCAAA GGATGGAGTC	120
ACAAGGCCAG ACTCTGAAGT GCAGCATCAG CTCCTGCCCA ACCCCTTCCA GCCAGGCCAG	180
GAGCAGCTCG GACTTCTGCA GAGCTACCTA AAGGGACTAG GAAGGACAGA AGTGCAACTG	240
GAGCATCTGA GCCGGAGCA GGTTCCTCTC TACCTCTTTG CCCTCCATGA CTATGACCAG	300
AGTGGACAGC TGGATGGCCT GGAGCTGCTG TCCATGTTGA CAGCTGCTCT GGCCCCTGGA	360
GCTGCCAACT CTCCTACCAC CAACCGGTG ATCTTGATAG TGGACAAAGT GCTCGAG	417

(2) INFORMATION FOR SEQ ID NO:1460:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 222 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1460:

GAATTCGGCC	TTCATGGCCT	ACTGAGAAAA	AAAATCAAAT	CTAATTTTAA	AATGAAGGTA	60
TTTAAACCA	TGGCACAAGG	GAGCCTTATT	TATGGAGCTG	GTGGGAAGCC	AGGATGTTTC	120
CAATCCGCTG	CTCTTACAGG	AGCCTGTGCC	TCGCCAGTTC	TGTGCTGCAG	TGGGCAGCCA	180
ACTGAAGTGC	ATGAGTCAAA	TGCACGAAGC	AGCAGACTCG	AG		222

(2) INFORMATION FOR SEQ ID NO:1461:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 256 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1461:

GCTGCCTCCA	TACTGTTTTA	GGCAGCACCG	TTTATGTGAC	AGAGTCCGTG	TTTCTCAAAT	60
GCATGGTGTT	CCTCAGGTGG	AGAGTGGGCA	GAAGTTTTTG	CAACACTTTT	TTTTTAAGTT	120
ATTGGGTGCA	AAATCCCAAA	CCAGGATATG	TGTATGTCTG	TGTGTTTATG	TTTTTATT	180
GACCTCCCC	TCTTTCAACC	TACCCCTTT	TATATCTAAT	GTAGAAAAG	CGAAATTGAA	240
TCTGAAAAA	CTCGAG					256

(2) INFORMATION FOR SEQ ID NO:1462:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 250 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1462:

GGGGGTGGAA	GGCGTAGTGC	TTGAAATGCA	GGGATCTGGC	AGTCAGCAGA	AGGATCTGAG	60
ACCCAGTGTC	GAGGTAAAA	AAAAACAAA	AAACCAAAAA	CCAATGCAGG	AATCCAGTGG	120
GTGGAGTGAG	GGGATCTGGG	ATCCAGTGAT	GGGGGCCCCA	GGATCCAGGC	ATTGTGGTTG	180
TCAGGATCCA	GTGGTGAGGT	TTGTTGACAT	CCAGAATCCA	GCAGCTGAGC	TTGGAGATCC	240
AGGGCTCGAG						250

(2) INFORMATION FOR SEQ ID NO:1463:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463:

```

GAATTCGGCC TTCATGGCCT AAGTTTATAA AAATTTGAGC CAGAAAAACC CAGGTAAGGA      60
TTTTTTTAT TTTTITTTTA TTTTATTTT TAGACCAGGT GAGAATCCTT TGTTCCTAGT      120
AGATTTTAAA ATTTAGTACA TTCAAAATTG ATATTTCTAC CATTTTCTCA GCCTGCTTGT      180
CTTCTTATCT TTGCAGCACT GCTTATTGCC ATCACTGCTT ATCTGTTAC TCAACTTGAA      240
ACCTCAGAAAT TGTCTTGAC CTCATCCCCA CATCTCGAG      279

```

(2) INFORMATION FOR SEQ ID NO:1464:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464:

```

GAATTCGGCC TTCATGGCCT AGGCCATTTC GTTCTAAACT GCTTGACTAG TTTTAAGCTC      60
ACATAATTCC TTAAGCTTTC ATATTTTCTT AAATGCAAGG AAATGAATAT AAAAGCACTA      120
AATCTCCTGG TTTCACTGGTA CAAAAATTAC AATGGTCAGT TCCCTTAGGT CATCAAAAAC      180
TAGTCACAAA AATAGTTCTT GTATTCAACC TGAATGTGCC ACAGGAAAAA AAAAATATTT      240
TCAAGATTTT CCAGCTCAGC CTCGAG      266

```

(2) INFORMATION FOR SEQ ID NO:1465:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465:

```

GAATTCGGCC TTCATGGCCT AAACATTTTC TGAAAAACGT GATAGAAAGA AGGAGGAGCT      60
GTTTCTAGGA GGGAAATAAA TAATTTGGCA GGAGACTTTT TGAAGTAGAT ATCTATTGAA      120
TAACAAAGTG ACAATGTTCC CCATCCTCTC ATTTCATTC CCAATTTTAC TTCTCGTCCC      180
AATTCAAATC ATTCTTACTT ATGATCGGCG CTATGTCAGT GCCTCTCAGC TGGTCTTCCC      240
AGACCCAGTC ACCCTCGAG      259

```

(2) INFORMATION FOR SEQ ID NO:1466:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466:

```

GCGCCTATCA CAAGCAGATC ATGGGTGGCT TCAAGGAGAC GAAGGAGGCT GAAGATGGCT      60
TCCGCAAGGC CCAGAAGCCT TGGGCAAGA AGATGAAGGA GCTGGAGGCA GCCAAGAAGG      120
CCTACCATTT GGCTTGCAAA GAGGAAAAGC TGGCCATGAC ACGGGAGATG AACAGCAAGA      180
CGGAGCAATC GGTCAACCT GAGCAGCAA AGAAGCTGCA GGACAAAGTG GACAAGTGCA      240

```


AGCAGGATGT GCAGAAGACA CAGGAGAAGT ATGAGAAAGT GCTGGAAGAT GTGGGCAAGA 300
CCACACCCCA GTACATGGAG AACAACTCG AG 332

(2) INFORMATION FOR SEQ ID NO:1467:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467:

GCTCCAGATG TGCTGTCTTC CATGCAAAGT GGAATTTGAC AATCACTGTG CCGTGCCTTG 60
GGACATCCTG AAAGCCAGCA TGAACACATC CTCTAATCCT GGGACACCGC TTCCGCTCCC 120
CCTCCGAATT CAGAATGACC TCCACCGACA GCAGTACTCC TATATTGATG CCGTCTGTTA 180
CGAGAAACAG CTGCATTGGT TTGCAAAGTT TTTCCCCTAT CTGGTGCTCT TGCACACGCT 240
CATCTTTGCA GCCTGCAGCA ACTTTGGCT TCACTACCCC AGTACCAGTT CCAGGCTCGA 300
G 301

(2) INFORMATION FOR SEQ ID NO:1468:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 436 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468:

GAATTCGGCC TTCATGGCCT AGTGAAAAT GGGAGGCATG AAATACATCT TTTCGTGTGT 60
GTTCTTTCTT TTGCTAGAAG GAGGCAAAAC AGAGCAAGTA AAACATTGAG AGACATATTG 120
CATGTTTCAA GACAAGAAGT ACAGAGTGGG TGAGAGATGG CATCCTTACC TGGAACCTTA 180
TGGGTTGGTT TACTGCGTGA ACTGCATCTG CTCAGAGAAT GGGAAATGTGC TTGACAGCCG 240
AGTCAGATGT CCAAATGTTC ATTGCCTTTC TCCTGTGCAT ATTCTCATC TGTGCTGCCC 300
TCGCTGCCCA GAAGACTCCT TACCCCAAGT GAACAATAAG GTGACCAGCA AGTCTTGCGA 360
GTACAAATGGG ACAACTTACC AACATGGAGA GCTGTTTCGTA GCTGAAGGC TCTTTCAGAA 420
TCGGCAACCA CTCGAG 436

(2) INFORMATION FOR SEQ ID NO:1469:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469:

GAATTCGGCC TTCATGGCCT AGTCTGGGCA ACAGAGCGAG ACCTTGTCTC AAAAAAAAAA 60
AAAAAAAAAC AAAGTAAAAA AAGATATGTG TTTGATTAAAT AACAGTCCTG ATTTAAACAA 120
ACAGCACTGT CTTTGTAGCC TTCACTCAGT ATGCAACTCC TTTATACAGA TTTTATTTTA 180
ATTTTTATAA CACACTGCTT GAGAAGCATA TTTATTTCCG TTTTGTGTG TGCATGTGGT 240

GGACAGGAAA CAGTGGTTCA GAGAGATGAA GCACCCTGCC CACCACATGC ACTCGAG 297

(2) INFORMATION FOR SEQ ID NO:1470:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470:

GAATTCGGCC TTCATGGCCT AGGACCTATT CTATCAGCAG CATTTGACAC CACTGATTAC	60
TCATTCTGCT CTGGTGTACT TTCTTCAATT GCTTCCAAGA CACCATAAAT TCTTCTGCCT	120
TGCTGGCTGC CTTTGCTGGT TCCTCCTCTT CTCCCTGACC TCTTAATGTT GGAGAACCAC	180
AGGGCTTAGT CCTTGGTCCT CTTCTCTCTT TTCTTTACAC TGTGGTCCTC AGTGAGGGAG	240
ATAGGTAGAT CCACTGTCCC GATCTTAACC CAAAGAAAGA CTGCTGTCC AGCTACGGGG	300
GCTGTGGTCA GAAGGCAGCC TCGAG	325

(2) INFORMATION FOR SEQ ID NO:1471:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 421 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471:

GAATTCGGCC TTCATGGCCT ACAAAGGAT GGGAAATGCC TGCATTCCCC TGAAAGAAT	60
TGCTTATTTT CTATGTCTCT TATCTGCGCT TTTGCTGACT GAGGGGAAGA AACCAGCGAA	120
GCCAAAATGC CCTGCCGTGT GACTTGTAC CAAAGATAAT GCTTTATGTG AGAATGCCAG	180
ATCCATTCCA CGCACCGTTC CTCCTGATGT TATCTCATTA TCCTTTGTGA GATCTGGTTT	240
TACTGAAATC TCAGAAGGGA GTTTTTTATT CACGCCATCG CTGCAGCTCT TGTTATTCAC	300
ATCGAACTCC TTTGATGTGA TCAGTGATGA TGCITTTTATT GGTCTTCCAC ATCTAGAGTA	360
TTTATTCATA GAAAACAACA ACATCAAGTC AATTCAAGA CATACTTTCC GGGTACTCGA	420
G	421

(2) INFORMATION FOR SEQ ID NO:1472:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472:

GAATTCGGCC TTCATGGCCT AGTACTCCAT CTCATCCATC TCATGGTAGT TCAGAAATGC	60
CTATATTCCT TCTTAAATTC ACCAGGATTT TTGTTTTTTC TTTCACCCCC TTTTGCCTT	120
TCTTATTTTC ATCCTTCCAT TTCATTCATT TCCACTCATG TTTAGCAGTT TCTATCCTT	180
TCTTTCCTGG CGTTTTAGCG TCACACATAG AAACCTATCA CCATCAGCCC TCG	233

(2) INFORMATION FOR SEQ ID NO:1473:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473:

```

CGGATTGAAT TCTAGTTGCC TACCTACCAA ACTACCTACT GAACTTTTAA ATTTGAAGAT      60
ATTCTTCCTG GACTACTTGT TTATAGTTTA TTAAATGAAC TGCTCTATTT CTAAAAACTT      120
TATTTTAAA  GTCCTTTCCC GTTTAGAATG CGGCATACTC TGCTTTGTGG GGTATATATC      180
TCTGATCGTG ATAACACCT ACCGAAACC TTTCATGGCT CCTTGCCAAC TACAAAATTG      240
CGATATCCTC GAG                                     253

```

(2) INFORMATION FOR SEQ ID NO:1474:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474:

```

GAATTCGGNC TTTCATGGCCT ACCGCAAGT CCTCCTGACC TTCAGGGAGC CTGACTTAGA      60
GAAGAAGTAC TCCAAGCAGG TAGACGACCG ATTTGGTGCC TATGTGGCGT GTGCCTCGCT      120
CGTCTTCCTC TTTCATCTGCT TTGTCCAGAT CACCATCGTG CCCCACTCCA TATTCATGCT      180
CAGCTTCTAC CTGACCTGTT CCCTGCTGCT GACCTTGGTG GTGTTTGTGT CTGTGATCTA      240
CTCCTGCGTA AAGCTCTTCC CCTCCCCACT GCAGACCCTC TCCAGGAAGA TCGTGCGGTC      300
CAAGATGAAC AGCACCCTGG TTGGGGTGTT CACCATCACC CTGGTGTTC TGGCGGCTTT      360
TGTCACACATG TTCACGTGCA ACTCCAGGGA CCTGCTGGGC TGCTTGGCAC AGGAGCGTCT      420
CGAG                                     424

```

(2) INFORMATION FOR SEQ ID NO:1475:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475:

```

GAATTCGGCC TTTCATGGCCT ACTCTGTGTT GGTAAGTAAA AGCCCTCCAG CATAGGTATA      60
CACTTAGTTG TTCCTTCCAG TGGTTATCAT ACTTCTTTTC TGCCCATAGT TACATGCTAA      120
CAACGTCCCA AAGCTATAGT TGCTCTTGCA TTTTGTCTT AATTCTTGTA AGATAAACTA      180
ATAATACAGG GAGTAAATGT GCACTGTTTA TTAATTAAAA TCCCGGGAC ACGGGATAAA      240
CTGAAGGAAA TCGTGCTTTT TGAAAAGTAG GTGTAGCTTG CCATGCTGCA TTGTCTTATA      300
CCCACAAAAC TCGAG                                     315

```

(2) INFORMATION FOR SEQ ID NO:1476:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476:

```

GAATTCGGCC TTCATGGCCT AGCCATCATG TTTATTAGAA GGTGGATT TGGTGTGTGC      60
TCTAGACAGA TACAGAATAA ATACCTGCGC CTTGAGAACA GGAAGTCCAC GATTCATACA      120
AAGTGCTCAC TACAGGAAGT TGCTGTGTCA AAATCCAGGC AAGGACCCAA CTCCGGGCAG      180
CCCTCCTCC CTGCTGACCT CAACAAGGCG TGTGCTATTG TTTTATTATT TATTATTTTA      240
TTTCTCTTA TTATTATTAA TATTATTATT ATTGCTTTT GCTGTGGTCA CTATCATTGG      300
CAAAGTTCCT TTTCCCTCGA G                                     321

```

(2) INFORMATION FOR SEQ ID NO:1477:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477:

```

GAATTCGGCC TTCATGGCCT AAGCAAAGCT AAGTGTAATA CTAAAAAGCA GTTTGTTGCA      60
ACTGGTCATA AAAGTGATTA AATCTAAAGC TGGCATTAAAT AAGGAAGCAA GGTAATAAAA      120
CAAAAATATA AACAGCTTTG AGAAAGTACA CTAATAACA AAATCTTGTA ACACAACAAA      180
TGAAAATCAC AAAAAATATA AGGAGACTCC TCGAG                                     215

```

(2) INFORMATION FOR SEQ ID NO:1478:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478:

```

GAATTCGGCC TTCATGGCCT AATCGGTCTC CTTTGGAGAG ATCACTAGAA CAGAAAAACA      60
ACCCAGATTA TAACTGGAAT GTTCGGAAAA CATAAAGGAC AGCTCGTAAA GGAGAGAGTA      120
AGAGTCACCA AACACGTGGA TATTTTGGT CTGATCCTAC AGTAGCCGGT TATCTAGACC      180
AGTAAGTGGA GTTTTGGACA TGCTGCTGCT GTCAACTCAC TGGCTGAAGG AGCACTTCAA      240
GGAAATGGGAG GCCTTTCACT GGGTCCAGCT CTGATTCGGA TCACTCTCGA G          291

```

(2) INFORMATION FOR SEQ ID NO:1479:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 514 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479:

GAATTCGGCC	TTCATGGCCT	AGAGAAAGAA	ATGGCTCGAA	CAGAAAACAG	TGGTCTTGAA	60
AGGCAACGCA	ACAGTAGGTT	ACAAATAGCA	TTAGCTTTTT	CTTTAAAGAA	ATTCATTGTA	120
ACCAGTGAAG	GATAAGATTT	TAAATTAGAA	AAATGGAAAT	CCTATGAATA	AAAAACTAGT	180
AAGCTTGAGA	GCAGAATCAC	TGTGGAAAAA	AAACAGATTG	AAAAATAACT	TGCAGGTATC	240
ATAGACAGGA	AATTGCCACT	AGAGAAAACA	GGAACTTGT	GATAGATAAA	AATGAAGTAT	300
TTTCATTGG	AACAAGAGAC	CAACTGAAGA	GAGATCAAGT	GAAGGGGGTT	TATTTTAATG	360
AAACACAAAG	ATTCTTGTGG	AAATCAAAGT	GCCGGAGCCA	GAAACAGGGC	TCAACCTTCA	420
AGATTAGAGC	TGTATTCAAG	TGTTCAAAGT	TGGCTCTCGG	TCCCAAAGCA	ACAGCAATGT	480
CACTAAGGTT	ACAAGTAAAA	GGTAAGCCCT	CGAG			514

(2) INFORMATION FOR SEQ ID NO:1480:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 194 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480:

GAATTCTAGA	CCTGCCCCTC	CACTGCTCCC	CATACCCTGG	CACGATGCGT	TCCTGGTCAC	60
TGATCACCAT	CATTTTGGGA	AGAGAAATCCC	AATCCCTGGC	ACCTGGGTTT	GCCTCATCCA	120
ACCATCCTTC	CCTTTCTCAG	CTGCACCCCC	TCTGCAGATC	TGAAGACACA	CCTCACTCTT	180
CCAGGGCCCT	CGAG					194

(2) INFORMATION FOR SEQ ID NO:1481:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 385 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481:

GACGCGCCCG	GCCTCCTCTT	TCATTTCACT	ATACGTAATA	AGAAGTCAGA	AATTACCTTT	60
AACCAAGCCT	GGAAATCTCC	TTATCTAGAT	CATTATATTC	TTTAGGTACA	TTTTTTACTT	120
TCTACATTAC	CACTCACAAC	AATATTGCTA	AATTTTTTCC	TCTAAATAAG	AAGGATTCCC	180
TTTTTCTAAT	AACACTTTCT	TTATTTTCT	TTAACCTTTC	ACTGAAAGCC	CCCTCAAAAG	240
CTACCTGGCT	TATGCTAACA	GTATGTTTGA	TGTCCTTTCA	ATACTACTCT	GTTTCCATCT	300
GTCTAGCATC	CACCTGCCTC	CCAATCTCAA	AGTCTCCATC	ATATTTTGTC	AGTTTTTAGT	360
TTTTTTGTTA	TGGTGCAACC	TCGAG				385

(2) INFORMATION FOR SEQ ID NO:1482:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 376 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1482:

GAATTCGGCC	TTCATGGCCT	AGGTTCTGGG	ATAGCTGATT	GTTGGCCACC	CCCCCCTGG	60
AATGGAAACC	CTGTTAGGCC	AGGGCCAGAG	CAGGTGGCCA	TGAAGCAAAG	CGGCAAAGGC	120
ATTGGAGGAT	GTCCACCTC	CACACATACG	CCCAGGCATT	TCTTGGCTGG	GGAATGGTGT	180
TACAGGATCC	ACAAGCACAG	AGATGGGAAA	ACAGTGTGTC	TGGGGAACAC	CAAGAGTTGG	240
GGTTGCCTGG	AGGACAGATA	GACTCAGGGG	GGACATCCAG	AGGTAACACT	AGGTCCGCAG	300
GTGGGTTTCA	AGGCCCCAGC	TCTATCCCCT	TATTCCTCAG	CGGATTAAAG	AATAATCTGA	360
GTATGGTTCC	CTCGAG					376

(2) INFORMATION FOR SEQ ID NO:1483:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483:

GAATTCGGCC	TTCATGGCCT	ATGGATCCAT	CATGGGACAA	TTACTAGTTA	TTTACTTTCC	60
TCCGCTTCAG	AAGGTTTTTC	AGACTGAGAG	CCTAAGCATA	CTGGATCTGT	TGTTTCTTTT	120
GGGTCTCACC	TCATCAGTGT	GCATAGTGGC	AGGCCTGGTC	AGTAATCTTC	TCTACTGTTA	180
TAGTACAGCA	GCTTTTAGGT	CCACTGATTG	CATTCTTAAT	TTGAGTATTT	AATATTATT	240
TTATTAACT	AAGGTTTTCA	TTTGTCACTA	TAGCATGGTC	TCATAATTTT	CAAAAAATCA	300
GAAACAGTA	GATGTTGGCG	TGGATGCAGT	GAACAGGGT	ACTCGAG		347

(2) INFORMATION FOR SEQ ID NO:1484:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 709 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484:

GAATTCGGCC	TTCATGGCCT	ACGAGAATAT	TGTGGAGAAC	TGGTCAGTAG	AAGAACAAGC	60
AATGGAAATG	GATTTGAGTG	TCCTTCAACA	GGTAGAAGAT	CTAGAAAGGA	GAGTTGCATC	120
AGCAAGTTTG	CAAGTGAAGG	GTTGGATGTG	TCCAGAGCCT	GCATCAGAAA	GGGAGGACTT	180
GGTATATTTT	GAACATAAAT	CATTTACTAA	ATTGTGCAAG	GAGCATGATG	GAGAATTTAC	240
TGGCGAAGAC	GAAAGCAGTG	CACATGCACT	AGAACGGAAG	AGTGACAACC	CCCTAGATAT	300
AGCTGTAACC	AGGCTGGCTG	ATTGGAGCG	GAACATTGAA	AGAAGGTATC	TGAAGAGCCC	360
CTTAAGTACC	ACCATTCAGA	TCAAACCTGA	TAATGTGGGC	ACAGTTACTG	TCCCTGCTCC	420
TGCACCATCC	GTTAGTGGTG	ATGGTGACGG	AATTGAAGAG	GATATTGCTC	CAGGGCTCAG	480
GGTATGGAGA	AGGGCATTAT	CAGAAGCTCG	CAGTGCTGCA	CAGGTAGCTC	TGTGCATTCA	540
GCAATTACAG	AAATCAATAG	CATGGGAAAA	ATCAATTATG	AAAGTTTACT	GCCAAATCTG	600
TCGAAAGGGA	GATAATGAAG	AACTGCTTCT	TCTTTGTGAT	GGCTGTGACA	AAGGCTGTCA	660
TACCTACTGC	CATAGACCCA	AGATTACAAC	AATCCAGAT	GCTCTCGAG		709

(2) INFORMATION FOR SEQ ID NO:1485:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:

```
GAATTCGGCC TTCATGGCCT ACTGTTTCAG AACTTCCGTA CCTTTTCTT GTATGTAGCA      60
CGTATAAATG CAGCTGTTCAT GCAGTTCTTT TCTTTTGCTA GAAAATTAGT CAGGAGGTAA      120
GATGAATCTT CCAAAGTTAT GTTAAATTTT GTTTAACTTG ACAAATTAAA CTTTGTCTT      180
ATTAAACAAA TACGTAAACA AATACTGGAA AAGCAAAGCT TATATTTGGG AGTAAAATGT      240
ATCTTAAAT GCATGTTCAA CTTTGCTCG AG                                     272
```

(2) INFORMATION FOR SEQ ID NO:1486:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486:

```
GAATTCGGCC TTCATGGCCT ACCGAGGACG AGGGGAAGAT GTCACGCAAG ATAGAAGGCT      60
TTTTGTATT ACTTCTCTTT GGCTATGAAG CCACATTGGG ATTATCGTCT ACCGAGGATG      120
AAGGCGAGGA CCCCTGGTAC CAAAAAGCAT GCAAGTGCGA TTGCCAAGGA GGACCCAATG      180
CTCTGTGGTC TGCAGGTGCC ACCTCCTTGG ACTGTATACC AGAATGCCCA TATCACAAGC      240
CTCTGGGTTT CGAGTCAGGG GAGGTCACAC CGGACCAGAT CACCTGCTCT AACC CGGAGC      300
AGTATGTGGG CTGCTATTCT TCGTGGA CTG CAAACAAGGC CCATCTCGAG              350
```

(2) INFORMATION FOR SEQ ID NO:1487:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:

```
GAATTCGGCC TTCATGGCCT AGTACCTGAA GGCCTTCAAG GTGGCCTACA GCCTTAATGG      60
ACACGAATTC GATTTCATCC ATGATGTTAA TAAAAACAC AAGGAGTTG TGGGTAAGT      120
GAACAAAAAC GCGGTGCATG TCAACCTGTT TGAGACCCCT GTGGAGGCTC AGTACGTGAG      180
ATTGTACCCC ACGAGCTGCC ACACGGCCTG CACTCTGCGC TTTGAGCTAC TGGGCTGTGA      240
GCTGAACGGA TGCGCCAATC CCCTGGGCGT CTCGAG                               276
```

(2) INFORMATION FOR SEQ ID NO:1488:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 595 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488:

```

GAATTCGGCC TTCATGGCCT AGTGGAGATT ACTTGGCACC ACTCTCCTTT CACAGAGCAG      60
AGTCTGAATA GTCTTCAGAG ATAGGCCTGT GGGCCAGATT GCCATCCCCT ATGGACCAGA      120
AGCCAAGGAT CTCTCTAGTG ATGGTCAGAG GGCCCAATG GCAGGGATAC CCAGTGATGT      180
CAGGAGGAAT AGTACAGACA GAAGGTGCTA AGCAGACAAT TCAACTGCCA TGTTTTGCCA      240
CCCCCTGTGA GCAGGGATTA GGTGTTCAGG CCAGTATCTT GGGCATGGGG GAGCCTTTGG      300
CCAGAAGAGG TATAAAGCTC AGAAGTTTTT CAGTCTGATA ACTATTGATA TAATTTCCAT      360
AGTGTGAGGG AGCGGTATGC TCTACCTTGG TGTATTTAAG GCAGGACAGA GAAATTGAGG      420
ATGCCCCCTGG GGCTAGATCG ATGATATGAC CAGAAATCAA AAAGGGAATG CATTATTTAT      480
TGCTGTGTAA CACTGTTAAG AGAGGAGGTA GTTAAGGGAT GGATAGGCAC ATAGAGAGGG      540
AAGGTCTCAG GAGAAGGGAT AGAAAGGAAC TATGTTTACA AGAACAACAC TCGAG          595

```

(2) INFORMATION FOR SEQ ID NO:1489:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489:

```

GAATTCGGCC TTCATGGCCT ACAATTTAAT AGTATAACAA ATCCCCTAGA ATAGTAGAGG      60
AGAGAGGAAT CTCCCCCTGA TATGTTTTTG TAATACTTCT TCCTCCTCTT CAGTCAATAG      120
GGAAATGTTT GTTGAAAGAC TACTTTGCAG ACATTTAGAA AGATACAGAG TAAGTGTAAG      180
ATGTCCCTCC TTGTCCTTGA GGAGTCTCTA GTCAGGCACA GGTAGGACTA AATGAAAAAC      240
AACTACAGAA CTAAGTAGAA GAGTGTAACA TAATATGGGG AATGTGGAAC ACTCGAG      297

```

(2) INFORMATION FOR SEQ ID NO:1490:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490:

```

GAATTCGGCC TTCATGGCCT ACTTACTTTT CCAAGAATTT TTTCCACCT GGAATAAGAA      60
GAGAGGACTA GTTGAAACAT TTGAGCTGGA GAGGCTTATG GGCAATATGA AGTCGGCCAA      120
ATTCTTGCAA TACACCCTAT TCAATTGAAA GTACAGTGTC TAAGGATAAG AATACTTCTT      180
TAAAGACCAA CAATTGTTTT AATGCAATCT TAATTAGTAA ATGGTTTACA TTTTCTCTAT      240
TGTTATTGGT TTTAAAATTT GCTACCGCTC GAG                                273

```

(2) INFORMATION FOR SEQ ID NO:1491:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 660 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:

```

GAATTCGGCC TTCATGGCCT ATTGAATTCT AGACCTGCCT CAGGGTAAGG GAGATTTAAT      60
CTTTTCTTTT ACTATTTTCT AGTTTCTATG AGCATGGATT ACTTGTGCAA ATCAAAACAA      120
AACAAACGGA TGGCTCATCC GGCAAACATC CATGGGCAGG GTTGGTGTG GGTGCTGGAC      180
GCAGAGATGA ATGGAGGGCT CTGGCCTCAG CGGCTCACAG TCTGGTGAGC ATAGACAGTG      240
CTTTCGATGT GAGAGCAGAC CTGAGTGTG CCGGGACTC CAGGCACAGT TCTCCTGCA      300
GCTCACAGCA CTTACCTTA CTGCACCATT AACTTCTACT CTAGCTCACT GCCTCTTAAC      360
TCTGAGCGCC TTGAAGGCAC AAAATGAGTC CCATCTGGGT CTTTAGCAGC TGGCAGAAAA      420
CCTAGCTCAA ACTCATGCTC TAAAAACCCC TGCTGAGGGA GTGGGCGAAT GCAGGCAGCC      480
CTGGCAGTGG GATCAAGTTC AGGGAGTGGC ACTGGAGGCA TCACCCCAAG GCTGAGAAGA      540
CCTTGAAGTG CTGTTGAGG TTTTGCTGTC TCTCCAAGG CATGACTCGG CCCAGGAGGA      600
GATGGGCGAG ATGCTGCAGA AGGAGGGTTC ATGCCCTCC ACTGCTGCCC ATGACTCGAG      660

```

(2) INFORMATION FOR SEQ ID NO:1492:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492:

```

GCTGTGCTAT CTGTGTCCA GCATCTGACA CAGTTGGTTT TATATTTGT CTGTTTCTA      60
GTTATTAAGC AGGTTAAGTC TGTTTCCTGC TGTTCTATAT AGCAGGAAGC AAAGTTTCTC      120
TCATGAATTT TTAGCATAAT AACATAAGCG TGGATTCCAA AAATTCATTA CACAGATCCT      180
GGAAATCTGT TTACTATGTT TTATACATTC TGTGAAAGCT GGAGAATATA TATTGTGTTT      240
ACTATGTGTA TCGCAAATAA AATATCAATT TCATGTGCCA GAGAATTGAA TACATTATCA      300
AAGGTCAAC TCGAG                                     315

```

(2) INFORMATION FOR SEQ ID NO:1493:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493:

```

GGGACAACAA GCCCATCTGG ATGCACGCAG AGGAGCGGGA GGAAAGCAAG GATAAGCGCC      60
GGGACAGCGC CCCCTATGGG GAATACGGCA GCTGGTACAA GGCCTGTAAA GTAGACAGCC      120
CCACAGTCAA CACCACCCTG CGCAGCTTGG GGGCCCTATA CCGGCGCCAG GGCAAGCTGG      180
AAGCCGCGCA CACACTAGAG GACTGTGCCA GCCGTAACCG CAAGCAGGGT TTGGACCCCG      240
CAAGCCAGAC CAAGGTGGTA GAACTGCTGA AAGATGGCAG TGGCAGGCGG GGAGACCGCC      300
GCAGCAGCCG AGACATGGCT GGGGGTGCCG GGCCTCGGTC TGAGTCTGAC CTCGAG      356

```

(2) INFORMATION FOR SEQ ID NO:1494:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1494:

GAATTCGGCC	TTCAATGGCCT	AGTAAAGGGA	TTTATAATAA	CATTAAAAAT	TTCGTTAGAT	60
TCCAGCTGAG	CACGAGTATA	GCAGCATTAA	CTTTAATCTC	ATTGGCTACA	TTAATGAACT	120
TTCTAATCC	TCTCAATGCC	ATGCAGATTT	TGTGGATCAA	TATTATTATG	GATGGACCCC	180
CAGCTCAGAG	CCTTGGAGTA	GAACCACTGG	ATAAAGATGT	CATTCTGAAA	CCTCCTCGCA	240
ACTGGAAAGA	CAGCATTGTT	ACTAAAAACT	TGATACTTAA	AATACTTGTT	TCATCAATAA	300
TCATTGTTTG	TGGGACTTTG	TTGTCTTCT	GGCGTGAGCT	ACGAGACAAT	GTGATTACAC	360
CTCGAG						366

(2) INFORMATION FOR SEQ ID NO:1495:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 258 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1495:

GCTCGAGCGT	TGAGGTCAAC	ACTTCCTCCA	GGGAAAAGGA	TTCCATTAAT	AGATTGAAA	60
AGTATTTCA	AGTCTTTCTC	TGTAAGATCC	AGCCTTACTG	GTACAACTCT	CGCACCTGCA	120
GACTCCAAGT	ACTTTACATA	GGACGCAGCA	ATATAGTATC	TTCCATAGTT	TTTCATGACT	180
TTATTACGGC	ATTTTGCAT	TAATATTCCG	ATGATGGGCT	TCTTGGCGGT	GTGCGCGTGG	240
GGTCTAGACT	ATCTCGAG					258

(2) INFORMATION FOR SEQ ID NO:1496:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 437 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1496:

GAATTCGGCT	TCATGGCCTA	CTCTCTTTCT	CCATGTTAAA	CCCCTTGGCA	TGAATGAAAG	60
GCTTTCCCT	TTATCCTTGC	TGTGTTTATT	CATTGTGTCC	AATGAGCTTC	TGAAGGTAGG	120
AGTAACTTTG	CACATTTTGC	TGTGTGGGCT	GCTGCATCTC	TGCCAAAAGG	TTTATGGGAT	180
TTTACTCAG	GAGATCCAGG	AAAAGGAGGA	GCCTGGAATC	TAAGCACTTA	TCTCCTGAAA	240
AGGTACAGAA	ACATGTGGA	GATCTTGAGC	CTCAAGGTGC	TTGCTTCAGA	ATTTTCTGA	300
TTCTCCCTCT	CCAGACCTAT	TCTGTTCTTG	GGACCCAAGC	TTCTTGGCTC	CAGCCCACTC	360
CCCCACTAGA	GGAGCTGGAA	AGTTTGGTGC	TGTGGTCATA	CCAAAGATGG	GCAACACCCA	420
GACTCTCAC	CCTCGAG					437

(2) INFORMATION FOR SEQ ID NO:1497:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 516 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497:

GAATTCGGCC TTCATGGCCT AGTGCAGGTC CTGGTGCTTG ATGGTCGAGG CCATCTCCTG	60
GGCCGCTGG CGGCCATCGT GGCTAAACAG GTACTGCTGG GCCGGAAGGT GGTGGTCGTA	120
CGCTGTGAAG GCATCAACAT TTCTGGCAAT TTCTACAGAA ACAAGTTGAA GTACCTGGCT	180
TTCTCCGCA AGCGGATGAA CACCAACCTT TCCCGAGGCC CCTACCACTT CCGGGCCCCC	240
AGCCGCATCT TCTGGCGGAC CGTGCAGGTT ATGCTGCCCC ACAAACCAA GCGAGGCCAG	300
GCCGCTCTGG ACCGTCTCAA GGTGTTTGAC GGCATCCAC CGCCCTACGA CAAGAAAAAG	360
CGGATGGTGG TTCCTGCTGC CCTCAAGGTC GTGCGTCTGA AGCCTACAAG AAAGTTTGCC	420
TATCTGGGGC GCCTGGCTCA CGAGGTTGGC TGAAGTACC AGGCAGTGAC AGCCACCTG	480
GAGGAGAAGA GGAAGAGAA AGCCAAGAAC CTCGAG	516

(2) INFORMATION FOR SEQ ID NO:1498:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498:

GCGAGCTCCT GACCTCAGGT GATCTACCG CCTCAGCCTC CCAAAGTGTT AGGATTACAG	60
GCGTGAGCCA CCGCACCCTG CACCCCCCCC CTTTFTTTT AATATAAATG ATCAGTCTTA	120
ACTCCCTAGG TTATCAGGTT GAGGGGGTGG GGATGAGGCT GGGGGACAGA TTGTTTTCCT	180
GGCTTCTAGC TCGGTGTTCT TTCTGCCTCT GTGCACAAEA AGGTATGCGT GTATTGTGGT	240
TGTGGACTGT GGTTGTGGAC TGCCTATTCA CAAGTGGCTA TGAGGCCCAT CTGCTGATGC	300
TTTGGATGC ACTTGGCGAT GAACTCGAG	329

(2) INFORMATION FOR SEQ ID NO:1499:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 430 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499:

GAATTCGGCC TTCATGGCCT AGGAGCGCGG TGGCCACGGA ACGCTGCCCG GAGCCGCGCG	60
AGGGAGGACC CGACGCGCGG CGTTTACCCA GCGCAGCGTT CCACCGCTCG GGTTCGGCTG	120
GATAAAATAA AAAATGGGGA TATTGACCTC CTGTCACTAC TGCATGGACT TTGATGGTTT	180
CCAATCATT CTTTCTCTC TGTGTCAATC TGCTCTTCG AGAAATTCAT ACTCTGAAT	240
AGCTCTCCAG ACCCCAGCT GGCCATGTGG TGAGTTCAGG GCCCAAATCA AGTAGTACCA	300
GCAATCAGG AACTCCTATC TGTTTGAAT GGATTCACAC CAGCCACAAG CCTGGAAAGA	360
TGGTGTCACA ATCTACAGTC AGGCAGGATT CTCCTGTGGA GCCCTGGGAA GGGATCAGCG	420
ATCACTCGAG	430

(2) INFORMATION FOR SEQ ID NO:1500:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500:

GAATTCGGCC	TTCATGGCCT	AGCCAAGTCT	GGGAAGCCTT	AAGGAAAGGA	GTGCCCCTCG	60
GCGTCTTGGT	CCTCCTGTCC	CTGCTGCAGG	GGCTGGGGCC	TCCGGAGCTG	CTGCGGGCTC	120
CCCTCAGGCT	CTGCTTCGTG	ACCCGTGACC	CATGACCCAC	AGTGCTGGCC	TCCTGTGGGG	180
CCACTATAGC	AGCCACCAGA	AGCCGCGAGG	CCCTCAGGGA	AGCCCAAGGC	CTGCAGAAGC	240
CTCCTGGCCT	GGCTGTGTCT	TCCCCACCCA	GCTCTCCCCT	GCGCCCCTGT	CTTTGTAAAT	300
TGACCCTTCT	GGAGTGGGGG	GCGGCGGGCA	GGGCTGCTTT	TCTTAGTCTG	ATACCAAGCA	360
AGGCCTTTTC	TCGAG					375

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

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NO:1325, SEQ ID NO:1326, SEQ ID NO:1327, SEQ ID NO:1328, SEQ ID

[illegible]

NO:1465, SEQ ID NO:1466, SEQ ID NO:1467, SEQ ID NO:1468, SEQ ID NO:1469, SEQ ID NO:1470, SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID NO:1481, SEQ ID NO:1482, SEQ ID NO:1483, SEQ ID NO:1484, SEQ ID NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500;

or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID

NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID

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or a complement of said sequence.

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ

ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID

NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262, SEQ ID NO:263, SEQ ID NO:264, SEQ ID NO:265, SEQ ID NO:266, SEQ ID NO:267, SEQ ID NO:268, SEQ ID NO:269, SEQ ID NO:270, SEQ ID NO:271, SEQ ID NO:272, SEQ ID NO:273, SEQ ID NO:274, SEQ ID NO:275, SEQ ID NO:276, SEQ ID NO:277, SEQ ID NO:278, SEQ ID NO:279, SEQ ID NO:280, SEQ ID NO:281, SEQ ID NO:282, SEQ ID NO:283, SEQ ID NO:284, SEQ ID NO:285, SEQ ID NO:286, SEQ ID NO:287, SEQ ID NO:288, SEQ ID NO:289, SEQ ID NO:290, SEQ ID NO:291, SEQ ID NO:292, SEQ ID NO:293, SEQ ID NO:294, SEQ ID NO:295, SEQ ID NO:296, SEQ ID NO:297, SEQ ID NO:298, SEQ ID NO:299, SEQ ID NO:300, SEQ ID NO:301, SEQ ID NO:302, SEQ ID NO:303, SEQ ID NO:304, SEQ ID NO:305, SEQ ID NO:306, SEQ ID NO:307, SEQ ID NO:308, SEQ ID NO:309, SEQ ID NO:310, SEQ ID NO:311, SEQ ID NO:312, SEQ ID NO:313, SEQ ID NO:314, SEQ ID NO:315, SEQ ID NO:316, SEQ ID NO:317, SEQ ID NO:318, SEQ ID NO:319, SEQ ID NO:320, SEQ ID NO:321, SEQ ID NO:322, SEQ ID NO:323, SEQ ID NO:324, SEQ ID NO:325, SEQ ID NO:326, SEQ ID NO:327, SEQ ID NO:328, SEQ ID NO:329, SEQ ID

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or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.
6. An isolated protein encoded by an isolated polynucleotide of claim 2.
7. An isolated protein encoded by an isolated polynucleotide of claim 3.
8. An isolated protein encoded by an isolated polynucleotide of claim 4.